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Ontario

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# Ontario Road Safety Annual Report

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1996

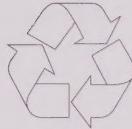


1996

Ontario  
Road Safety  
Annual Report

'96

# Ontario Road Safety Annual Report



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If you are seeking information on how to reduce your risk of being in a collision, visit your local Ministry of Transportation (MTO) office for the latest copy of the Official Driver's Handbook call General Publishing at (800) 387-0141 or (416) 445-3333. For all other driver manuals and leaflets call (416) 235-3473 or for MTO information call (800) 268-4686. In addition, you may wish to borrow a road safety video from the Ontario Safety League (416) 620-1720.

Many of the publications are available at automotive retail outlets and book stores.

For more information on the data in this publication, please contact the Safety Research Office at (416) 235-3585.

Produced by:

Safety Research Office

Safety Policy Branch

Ministry of Transportation

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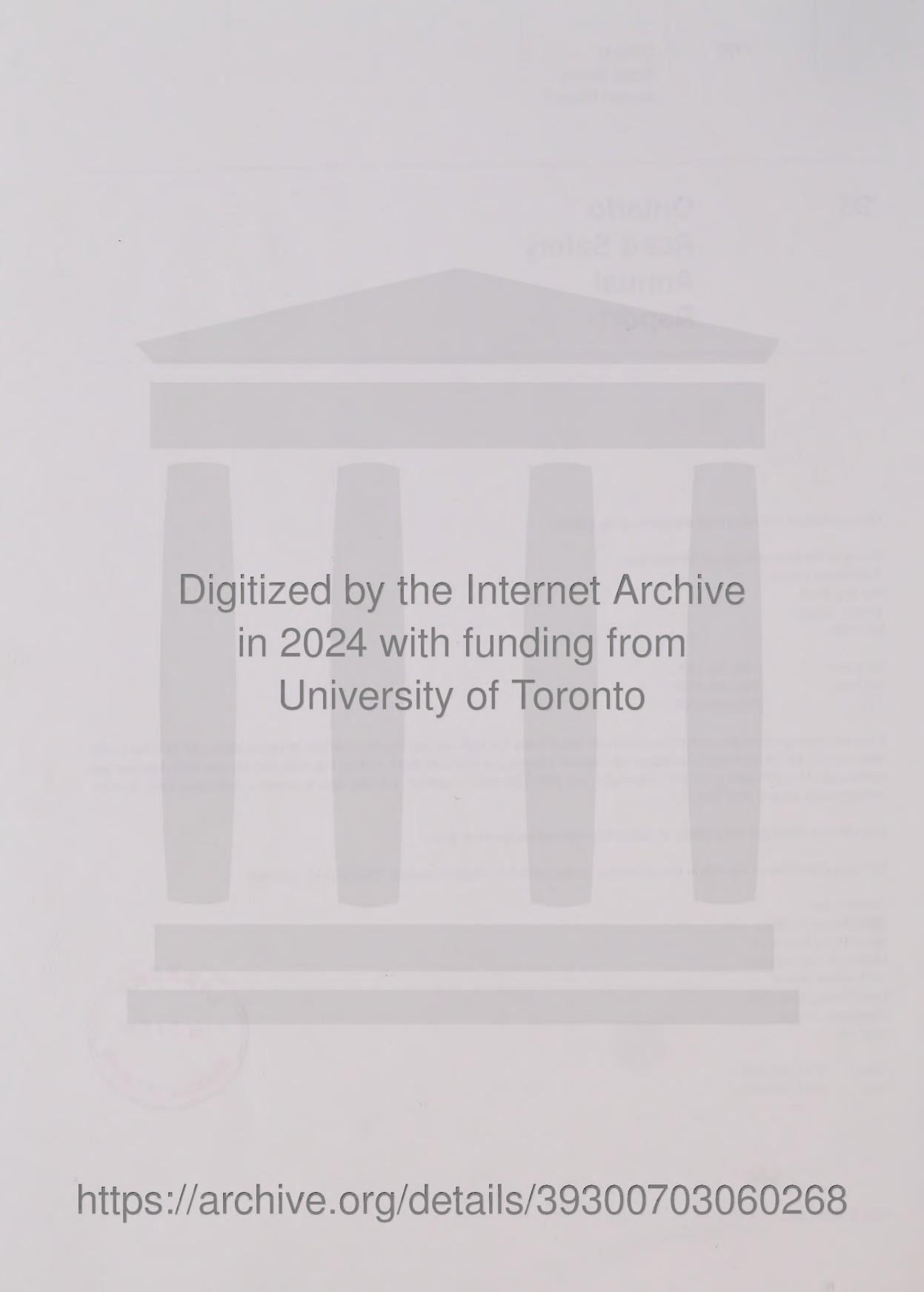
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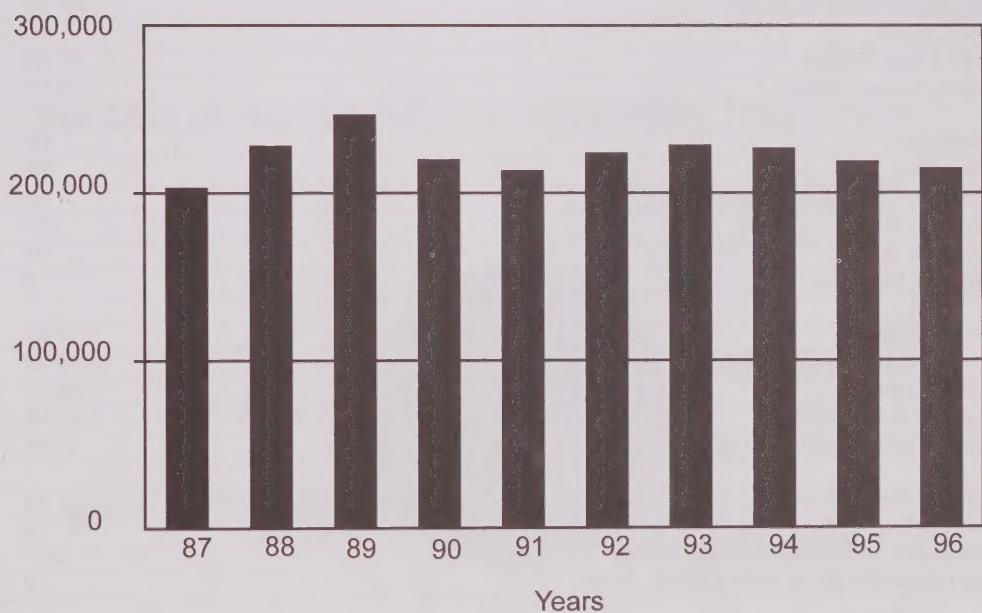
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1 Total Number of Collisions in Ontario, 1987 - 1996	1
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**1****Overview****Total Number of Collisions in Ontario - 1987 to 1996**

Total Number of Collisions



## 1a. Synopsis

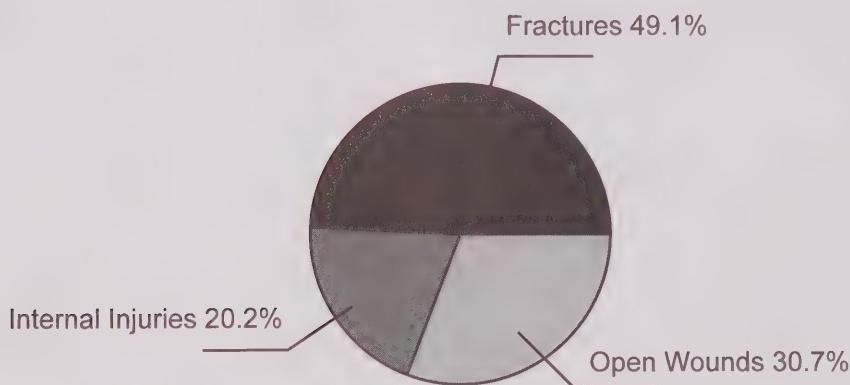
### Selected Statistics

Total Reportable Collisions	215,024
Total Drivers Involved in Collisions	384,453
Total Vehicles Involved in Collisions	398,720
Fatal Collisions	816
Personal Injury Collisions	57,791
Property Damage Collisions	156,417
Persons Killed	929
Drivers Killed	506
Drivers Killed (Impaired or Had Been Drinking)	127
Passengers Killed	270
Pedestrians Killed	144
Other Road Users Killed	5
Persons Injured	88,445
Estimated Ontario Population (1994)	10,303,529
Licensed Drivers	7,258,167
Registered Motor Vehicles	6,462,849
Estimated Vehicle Kilometres Travelled (in millions)	79,368
Number of Persons Killed in Motor Vehicle Collisions per 100,000 People in Ontario	9.0
Number of Persons Killed in Motor Vehicle Collisions per 100 Million Kilometres Travelled	1.2
Collision Rate per 100 Million Kilometres Travelled	270.9
Fatal Collision Rate per 100 Million Kilometres Travelled	1.0

**1b.****Selected Characteristics of Motor Vehicle Collisions**

On January 1, 1988 a new Motor Vehicle Accident Report (MVAR) form was introduced. These data includes the changes which were made on the form used by the police forces in Ontario, which forms the basis for the collision statistics compiled by the province of Ontario. This has resulted in changes in the ways in which the data are compiled. As a result, some of the information may not be directly comparable to data from years prior to 1988.

**Per Cent of Hospital Admissions by Injury Type - 1996**



## 1c. The Health Perspective

### Selected Diagnoses of Motor

#### Vehicle Collision Injuries

Hospitalized in Ontario, 1995/96

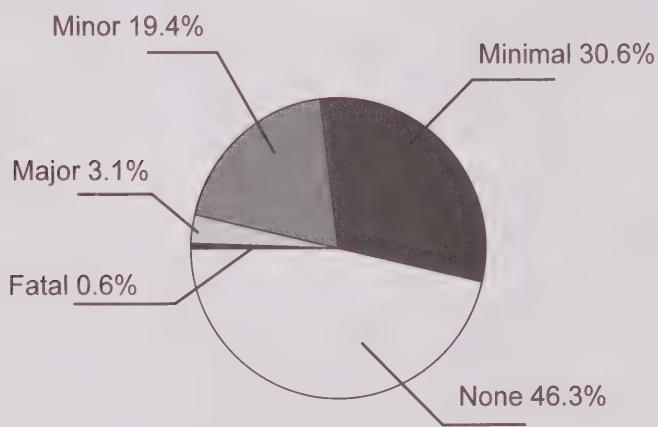
Selected Diagnoses	Hospital Admissions	Hospital Days of Stay
Fracture of skull	498	6,137
Fracture of neck and trunk	1,382	14,401
Fracture of upper limb	595	3,091
Fracture of lower limb	1,417	15,314
Dislocation, sprains and strains	296	1,289
Intracranial injury, excluding those with skull fracture	1,144	14,683
Internal injury of chest, abdomen and pelvis	583	5,171
Open wound of head, neck and trunk	254	728
Open wound of upper limb	62	329
Open wound of lower limb	73	556
Other injuries, burns and traumatic complications	2,231	48,627
<b>Total Admissions and Days</b>	<b>8,535</b>	<b>110,326</b>

### Selected Surgical Procedures for

#### Motor Vehicle Collision Injuries

Hospitalized in Ontario, 1996

Selected Procedure	Hospital Admissions	Hospital Days of Stay
Operations on skull, brain and cerebral meninges	142	3,485
Operations on spinal cord and canal structures	57	1,113
Operations on nose, mouth and pharynx	53	224
Operations on chest wall, pleura, mediastinum and diaphragm	115	1,514
Operations on bone marrow and spleen	76	967
Operations on kidney	32	4,086
Operation on facial bones and joints	157	1,406
Reduction of fracture and dislocation	1,767	19,188
Repair and plastic operations on joint structures	135	3,180
Operations on skin and subcutaneous tissue	529	2,905
Other surgical procedure	576	7,822
<b>Sub-total of surgical admission and days</b>	<b>3,639</b>	<b>45,890</b>
<b>No surgical procedures reported</b>	<b>4,896</b>	<b>64,436</b>
<b>Total Admissions and Days</b>	<b>8,535</b>	<b>110,326</b>

**2****The People****Per Cent of Involved Persons in Collisions by Severity of Injury - 1996**

## 2a. People in Collisions

Table 2.1

Category of Involved Person by Severity of Injury  
in Fatal and Personal Injury Collisions 1996

Category of Involved Person	Severity of Injury					Total
	None	Minimal	Minor	Major	Fatal	
Driver	49,040	29,783	17,312	2,519	459	99,113
Passenger*	26,979	16,784	10,598	1,565	269	56,195
Pedestrian	125	2,208	2,458	670	144	5,605
Cyclist	37	1,529	1,178	156	20	2,920
Cyclist Passenger	14	60	39	2	-	115
All Terrain Vehicle Driver	10	9	5	6	-	30
All Terrain Vehicle Passenger	6	3	2	-	-	11
Snow Vehicle Driver	8	14	20	12	3	57
Snow Vehicle Passenger	-	4	6	8	-	18
Motorcycle Driver	65	322	507	177	27	1,098
Motorcycle Passenger	27	69	137	38	2	273
Moped Driver	7	10	12	2	1	32
Moped Passenger	3	6	-	-	-	9
Hanger On	22	24	29	10	1	86
Other	683	106	39	7	3	838
Total	77,026	50,931	32,342	5,172	929	166,400

\* Includes bus passengers.

Due to a change in the method of tabulating collision statistics this table excludes individuals involved in property damage only collisions.

**Fatal** Person killed immediately or within 30 days of the motor vehicle collision.

**Major** Person admitted to hospital. Includes person admitted for observation.

**Minor** Person went to hospital and was treated in the emergency room but was not admitted.

**Minimal** Person did not go to hospital when leaving the scene of the collision. Includes minor abrasions, bruises and complaint of pain.

**None** Uninjured person.

Table 2.2 Category of Person Killed by Age Groups 1996

Category of Person	Age Groups							Total									
	0-4	5-9	10-15	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65-74	75+	UK	
Driver	-	-	4	2	8	10	13	50	104	72	61	45	55	35	-	459	
Passenger*	6	13	8	9	21	11	12	5	34	36	24	18	26	20	27	-	270
Pedestrian	4	7	6	3	1	-	3	2	4	12	16	20	15	24	25	2	144
Cyclist	1	-	2	1	-	-	1	-	2	8	-	2	-	1	2	-	20
Cyclist Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATV Driver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATV Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Snow Vehicle Driver	-	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	3
Snow Vehicle Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Motorcycle Driver	-	-	1	1	-	3	-	4	7	6	4	1	-	-	-	-	27
Motorcycle Passenger	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2
Moped Driver	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
Moped Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	3
<b>Total</b>	<b>11</b>	<b>20</b>	<b>17</b>	<b>18</b>	<b>26</b>	<b>19</b>	<b>29</b>	<b>20</b>	<b>95</b>	<b>168</b>	<b>119</b>	<b>105</b>	<b>87</b>	<b>103</b>	<b>89</b>	<b>3</b>	<b>929</b>

\* Includes 1 Hanger On

These are deaths in Highway Traffic Act (HTA) reportable collisions only. For more information on special vehicles see Chapter 6.

Table 2.3 Category of Persons Injured by Age Groups 1996

Category of Person	Age Groups							Total
	0-4	5-9	10-15	16	17	18	19	
Driver	6	2	55	218	834	1,109	1,247	1,215
Passenger*	1,277	1,988	2,616	834	934	1,023	962	895
Pedestrian	145	464	808	139	140	106	100	95
Cyclist	23	213	626	94	88	79	84	83
Cyclist Passenger	5	10	24	1	4	5	6	2
ATV Driver	-	-	9	2	3	1	-	-
ATV Passenger	-	-	3	1	-	1	-	-
Snow Vehicle Driver	-	-	10	11	3	1	2	3
Snow Vehicle Passenger	-	1	7	2	2	1	2	1
Motorcycle Driver	-	-	13	20	31	23	28	44
Motorcycle Passenger	1	2	11	9	7	13	7	10
Moped Driver	-	-	1	-	2	-	1	2
Moped Passenger	-	-	1	-	-	-	-	1
Other	2	12	2	1	1	2	2	4
<b>Total</b>	<b>1,457</b>	<b>2,682</b>	<b>4,196</b>	<b>1,333</b>	<b>2,050</b>	<b>2,362</b>	<b>2,442</b>	<b>2,351</b>
								<b>8,845</b>
								<b>1,201</b>
								<b>2,227</b>
								<b>4,048</b>
								<b>1,197</b>
								<b>16,186</b>
								<b>10,751</b>
								<b>6,197</b>
								<b>4,048</b>
								<b>2,227</b>
								<b>1,201</b>
								<b>8,845</b>

\* Includes 63 Hangers On

These are injuries in Highway Traffic Act (HTA) reportable collisions only. For more information on special vehicles see Chapter 6.

**Table 2.4 Sex of Driver by Class of Collision 1996**

Sex of Driver	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Male	1,052	71,365	189,662	<b>262,079</b>
Female	310	36,197	82,919	<b>119,426</b>
Unknown*	5	654	2,289	<b>2,948</b>
<b>Total</b>	<b>1,367</b>	<b>108,216</b>	<b>274,870</b>	<b>384,453</b>

**Fatal Collision** A motor vehicle collision in which at least one person sustains bodily injuries resulting in death. Prior to January 1, 1982, fatal collision statistics included deaths attributed to accidental injuries up to one year after the collision. Since that date, only deaths from injuries within thirty days of the collision have been included.

**Personal Injury Collision** A motor vehicle collision in which at least one person involved sustains bodily injuries not resulting in death.

**Property Damage Collision** A motor vehicle collision in which no person sustains bodily injury, but in which there is damage to any public property or damage to private property including damage to the motor vehicle or its load.

The minimum reportable level for property damage only collision rose from \$200 to \$400 on January 1, 1978 and rose again to \$700 on January 1, 1985.

**Table 2.5 Driver Condition by Class of Collision 1996**

Condition of Driver	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Normal	933	87,183	215,651	<b>303,767</b>
Had Been Drinking	71	2,291	3,417	<b>5,779</b>
Ability Impaired -				
Alcohol over .08	123	1,461	2,277	<b>3,861</b>
Ability Impaired Alcohol	23	683	807	<b>1,513</b>
Ability Impaired Drugs	17	71	106	<b>194</b>
Fatigue	20	569	757	<b>1,346</b>
Medical Physical Defect	13	440	372	<b>825</b>
Inattentive	54	5,875	13,178	<b>19,107</b>
Other	6	241	525	<b>772</b>
Unknown*	107	9,402	37,780	<b>47,289</b>
<b>Total</b>	<b>1,367</b>	<b>108,216</b>	<b>274,870</b>	<b>384,453</b>

**Had Been Drinking** Driver had consumed alcohol but his/her physical condition was not legally impaired.

**Ability Impaired Alcohol Over .08** Driver had consumed alcohol and upon testing was found to have a blood alcohol level in excess of 80 mg%. Eighty mg alcohol per 100 ml of blood is the legal limit in the province of Ontario.

**Ability Impaired Alcohol** Driver had consumed sufficient alcohol to warrant being charged with a drinking and driving offence.

**Inattentive** Driver was operating a motor vehicle without due care and attention or placing less than full concentration on driving, e.g., changing radio stations, consuming food, reading, talking on phone or two-way radio, using headphones.

\* This includes situations where the enforcement officer is unable to make a determination e.g. hit and run.

Table 2.6 Driver Age by Driver Condition In all Collisions 1996\*

Driver Age	Driver Condition						Total	
	Normal	Had Been Drinking	Impaired	Ability	Other	Unknown		
			Alcohol	Impaired				
Under 16	1,056	21	1	4	198	113	1,393	
16	1,462	26	8	7	150	140	1,793	
17	5,841	113	25	13	692	466	7,150	
18	6,719	138	56	25	694	652	8,284	
19	7,036	272	121	38	696	678	8,841	
20	7,039	257	127	40	598	631	8,692	
21-24	28,963	870	447	140	2,202	3,058	35,680	
25-34	81,333	1,819	1,226	514	5,177	8,876	98,945	
35-44	70,324	1,156	1,050	390	4,396	7,250	84,566	
45-54	46,379	577	490	188	2,822	4,641	55,097	
55-64	24,651	260	200	86	1,684	2,383	29,264	
65-74	14,408	115	79	34	1,373	1,298	17,307	
75 & over	6,646	24	15	10	1,041	614	8,350	
Unknown	1,910	131	16	24	521	16,489	19,091	
Total	303,767	5,779	3,861	1,513	22,244	47,289	384,453	

\* Includes all drivers in Highway Traffic Act (HTA) reportable collisions.

Table 2.7 Recorded Driver Condition  
In Drivers Killed 1996\*

Recorded Occurrence	Drivers Number	Drivers %
Normal	272	53.3
Had Been Drinking	28	5.5
Ability Impaired -		
Alcohol over .08	92	18.0
Ability Impaired Alcohol	7	1.4
Ability Impaired Drugs	13	2.5
Fatigue	12	2.4
Medical Physical Defect	13	2.5
Inattentive	19	3.7
Other	49	9.6
Unknown	5	1.0
Total	510	100

\* In previous years Table 2.7 only included fatality injured drivers who were either normal or had been drinking. In order to better examine the other pre-crash factors related to deaths of all drivers this table has now been expanded to include the driver conditions of fatality injured drivers. These data can be recombined into the older format by recalculating the percentages based on only the alcohol and normal driver's data.

**Table 2.8** Apparent Driver Action by Class of Collision 1996

Apparent Driver Action	Class of Collision			Total
	Fatal	Personal	Property	
Driving Properly	590	51,145	125,984	177,719
Following Too Close	16	9,273	21,788	31,077
Speed Too Fast	84	1,202	1,774	3,060
Speed Too Fast for Conditions	102	5,978	16,753	22,833
Speed Too Slow		80	164	244
Improper Turn	14	3,641	11,398	15,053
Disobey Traffic Control	77	5,021	7,163	12,261
Fail to Yield				
Right of Way	95	11,102	27,956	39,153
Improper Passing	21	770	2,824	3,615
Lost Control	176	7,946	21,115	29,237
Wrong Way on				
One Way Road	5	128	231	364
Improper Lane Change	14	1,789	9,179	10,982
Other*	126	6,908	16,836	23,870
Unknown	47	3,233	11,705	14,985
<b>Total</b>	<b>1,367</b>	<b>108,216</b>	<b>274,870</b>	<b>384,453</b>

\* Includes actions defined as careless driving, inattentive driving, fell asleep, wrong side of road, improper parking, impaired, illegally parked, dangerous driving, inexperience, etc.

**Table 2.9** Seat Belt Usage by Severity of Driver Injury in Fatal and Personal Injury Collisions 1996

Safety Equipment Used	Severity of Injury					Total
	Killed	Major	Minor	Minimal	Not Injured	
Seat Belt Used	259	1,833	15,101	27,756	43,898	88,847
Other Equipment*	6	65	375	355	183	984
Equipment Not used	135	354	781	477	317	2,064
No Safety Equipment	1	9	40	32	71	153
Use Unknown	58	258	1,015	1,163	4,571	7,065
<b>Total</b>	<b>459</b>	<b>2,519</b>	<b>17,312</b>	<b>29,783</b>	<b>49,040</b>	<b>99,113</b>

\* Other equipment includes helmets, including construction, motorcycle helmets, etc. It also includes the use of airbags. Seat belt usage in conjunction with airbag deployment is unknown.

The tables on this page only include seat belt usage in collisions in which there were personal injuries or fatalities. Property damage only collisions are excluded. ORSARs published prior to 1988, included seat belt usage in all collisions.

**Table 2.10**      **Seat Belt Usage by Severity of Passenger Injury in Fatal and Personal Injury Collisions 1996**

Safety Equipment Used		Severity of Injury					
		Killed	Major	Minor	Minimal	Not Injured	Total
Seat Belt Used		143	1,004	8,389	14,413	21,739	45,688
Child Safety Seat							
Used Incorrectly		1	5	11	18	71	106
Child Safety Seat							
Used Correctly		3	18	177	361	1,694	2,253
Other Equipment*		3	14	104	86	68	275
Equipment Not used		91	303	853	575	430	2,252
No Safety Equipment		8	58	428	570	828	1,892
Use Unknown		18	166	600	708	2,070	3,562
<b>Total</b>		<b>267</b>	<b>1,568</b>	<b>10,562</b>	<b>16,731</b>	<b>26,900</b>	<b>56,028</b>

\* Other equipment includes helmets, including construction, motorcycle helmets, etc. It also includes the use of airbags. Seat belt usage in conjunction with airbag deployment is unknown.

**Table 2.11**      **Restraint Use for Children (0 - 4 Years) Killed in Collisions 1992-1996**

Year Used	Child Restraint	Child Restraint	Lap/Lap & Shoulder Belt	Restraint	Available	Use	Total
	Used Correctly	Used Incorrectly	Not Available	Not Used	Unknown		
1992	8	4	4	3	2	-	21
1993	5	1	5	1	-	-	12
1994	5	-	4	1	2	1	13
1995	5	2	10	1	2	-	20
1996	3	1	1	0	1	-	6

**Table 2.12**      **Restraint Use for Children (0 - 4 Years)**  
**Involved in Fatal and Personal Injury Collisions by Severity of Injury 1996**

Restraint Used	Injury Level		
	Major / Fatal %	Minimal/Minor %	No Injuries %
Child Restraint Used Correctly	34.5	38.6	47.0
Child Restraint Used Incorrectly	10.3	2.0	2.0
Lap/Lap-Shoulder Belt	41.4	49.2	44.5
Not Available	-	2.7	2.0
Available/Not Used	12.1	3.1	0.8
Other	-	0.5	0.2
Unknown	1.7	4.0	3.6
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

It is known from observation surveys that many child safety seats are not used correctly. This is not clear in these tables since children are often removed from the child safety seat before the police officer arrives on the scene. Both correct installation of the seats according to the manufacturer's instructions and correct use of the device in the vehicle are important for the child's protection.

**Table 2.13 Pedestrian Condition by Severity of Injury 1996**

Condition of Pedestrian	Killed	Injured
Normal	76	3,506
Had Been Drinking	6	241
Ability Impaired Alcohol over .08	20	20
Ability Impaired Alcohol	3	96
Ability Impaired Drugs	1	15
Fatigue	-	3
Medical or Physical Defect	4	91
Inattentive	17	699
Other	2	101
Unknown	15	564
<b>Total</b>	<b>144</b>	<b>5,336</b>

**Table 2.14 Apparent Pedestrian Action by Severity of Injury 1996**

Apparent Pedestrian Action	Killed	Injured
Crossing Intersection With Right of Way	11	1,481
Crossing Intersection Without Right of Way	26	878
Crossing Intersection No Traffic Control	27	409
Crossing Pedestrian Crossover	4	149
Crossing Marked Crosswalk Without Right of Way	8	109
Walking on Roadway With Traffic	8	147
Walking on Roadway Against Traffic	2	68
On Sidewalk or Shoulder	6	336
Playing or Working on Highway	3	86
Coming from Behind Parked Vehicle or Object	2	212
Running onto Roadway	11	624
Getting On/Off School Bus*	2	8
Getting On/Off Vehicle	1	78
Pushing/Working on Vehicle	-	27
Other	33	724
Unknown	-	-
<b>Total</b>	<b>144</b>	<b>5,336</b>

\* Calender Year

## 2b. Putting the People in Context

**Table 2.15 Category of Persons Killed and Injured 1987-1996**

Year	Ontario Population (Est.)	Driver		Passenger*		Pedestrian		All Others		Persons Killed		Persons Injured	
										In All Classes	In All Classes		
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Number	100,000	Number	100,000
1987	9,270,700	545	64,588	318	39,596	187	5,939	179	10,966	1,229	13.3	121,089	1,306.2
1988	9,439,600	563	63,339	350	39,157	186	6,344	138	9,318	1,237	13.1	118,158	1,251.7
1989	9,598,600	627	66,334	369	39,950	161	6,187	129	8,181	1,286	13.4	120,652	1,257.0
1990	9,743,300	540	55,073	321	33,606	154	5,839	105	7,057	1,120	11.5	101,575	1,042.5
1991	10,084,900	542	48,021	298	30,230	157	5,352	105	6,916	1,102	10.9	90,519	897.6
1992	10,098,600	548	49,259	317	30,567	140	5,177	85	6,022	1,090	10.8	91,025	901.4
1993	10,813,200	595	49,628	296	30,584	146	5,181	98	5,756	1,135	10.5	91,149	842.9
1994	10,927,800	508	49,632	273	29,570	127	5,344	91	5,484	999	9.1	90,030	823.9
1995	11,100,000	527	49,916	276	29,440	126	5,261	70	4,955	999	9.0	89,572	807.0
1996	11,320,456	459	49,614	270	28,997	144	5,336	55	4,458	928	8.2	88,405	780.9

\* Excludes motorcycle passengers, which are included with "All Others".

**Table 2.16 Sex of Driver Population by Age Groups 1996**

Sex of	Age Groups							Total
	16-19	20-24	25-34	35-44	45-54	55-64	65+	
Driver	194,941	323,772	842,124	892,165	688,949	449,938	490,706	3,882,595
Male	166,630	288,288	766,443	824,885	608,340	355,548	365,438	3,375,572
Total	361,571	612,060	1,608,567	1,717,050	1,297,289	805,486	856,144	7,258,167

**Table 2.17 Driver Population by Age Groups 1987-1996**

Year	Age Groups							Total
	16-19	20-24	25-34	35-44	45-54	55-64	65+	
1987	305,886	662,357	1,544,926	1,306,853	866,022	708,865	583,196	5,978,105
1988	310,764	643,691	1,588,516	1,353,841	898,103	714,266	608,931	6,118,112
1989	323,109	631,470	1,634,187	1,409,053	931,991	720,788	639,826	6,290,424
1990	322,542	629,478	1,666,474	1,467,699	964,925	728,380	669,385	6,448,883
1991	319,584	627,931	1,673,502	1,501,765	1,018,365	736,652	696,432	6,574,231
1992	314,685	623,707	1,665,433	1,528,726	1,082,883	745,759	727,568	6,688,761
1993	326,389	621,934	1,655,573	1,566,083	1,136,365	758,840	758,244	6,823,428
1994	358,817	622,704	1,645,962	1,611,972	1,190,442	770,882	783,181	6,983,960
1995	360,847	614,094	1,621,989	1,659,749	1,240,072	782,871	806,396	7,086,018
1996	361,571	612,060	1,608,567	1,717,050	1,297,289	805,486	856,144	7,258,167

Table 2.18

Driver Licence Class by Sex 1995

Licence Class	Driver Sex				Total	%
	Male	%	Female	%		
A	80,982	2.09	1,244	.04	82,226	1.13
AM	28,776	.74	174	.01	28,950	.40
AM1	336	.01	4	0.00	340	.00
AM2	619	.02	11	0.00	630	.01
AB	4,161	.11	373	.01	4,534	.06
AC	13,133	.34	287	.01	13,420	.18
ABM	2,270	.06	122	0.00	2,392	.03
ABM1	12	0.00	3	0.00	15	0.00
ABM2	53	.00	11	0.00	64	0.00
ACM	6,883	.18	83	0.00	6,966	.10
ACM1	59	.00	1	0.00	60	0.00
ACM2	139	.00	3	0.00	142	.00
B	16,386	.42	15,415	.46	31,801	.44
BM	4,631	.12	904	.03	5,535	.08
BM1	30	0.00	23	0.00	53	0.00
BM2	85	.00	49	0.00	134	.00
C	6,268	.16	427	.01	6,695	.09
CM	1,840	.05	57	0.00	1,897	.03
CM1	16	0.00	2	0.00	18	0.00
CM2	34	0.00	5	0.00	39	0.00
D	208,233	5.36	12,585	.37	220,818	3.04
DM	51,032	1.31	853	.03	51,885	.71
DM1	441	.01	18	0.00	459	.01
DM2	880	.02	41	0.00	921	.01
DE	119	.00	15	0.00	134	.00
DF	2,056	.05	87	0.00	2,143	.03
DEM	29	0.00	0	0.00	29	0.00
DEM1	0	.00	1	0.00	1	0.00
DEM2	2	0.00	0	0.00	2	0.00
DFM	973	.03	11	0.00	984	.01
DFM1	15	0.00	0	0.00	15	0.00
DFM2	19	0.00	1	0.00	20	0.00
E	1,399	.04	2,167	.06	3,566	.05
EM	195	.01	48	0.00	243	0.00
EM1	1	0.00	1	0.00	2	0.00
EM2	4	0.00	4	0.00	8	0.00
F	7,784	.20	5,066	.15	12,850	.18
FM	1,918	.05	307	.01	2,225	.03
FM1	27	0.00	12	0.00	39	0.00

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Table 2.18

Driver Licence Class by Sex 1996

Continued

Licence	Driver Sex				Total	%
Class	Male	%	Female	%		
FM2	71	.00	19	0.00	90	.00
G	2,808,800	72.34	3,002,254	88.94	5,811,054	80.06
GM	335,771	8.65	50,834	1.51	386,605	5.33
GM1	7,992	.21	1,542	.05	9,534	.13
GM2	13,084	.34	2,800	.08	15,884	.22
G1	113,680	2.93	132,113	3.91	245,793	3.39
G1M	118	.00	19	0.00	137	.00
G1M1	507	.01	49	.00	556	.01
G1M2	542	.01	44	.00	586	.01
G2	154,531	3.98	144,811	4.29	299,342	4.12
G2M	588	.02	66	.00	654	.01
G2M1	982	.03	75	.00	1,057	.01
G2M2	1,591	.04	109	.00	1,700	.02
M	1,635	.04	302	.01	1,937	.03
M1	269	.01	30	0.00	299	.00
M2	593	.02	90	.00	683	.01
Other	1	0.00	0.0	.00	1	0.00
Total	3,882,595	100	3,375,572	100	7,258,167	100

**Table 2.19** Licensed Drivers, Total Collisions, Persons Killed and Injured 1931-1996

Year	Licensed Drivers	Total Collisions	Persons Killed	Persons Injured
1931	666,266	9,241	571	8,494
1932	648,710	9,171	502	8,231
1933	638,710	8,634	403	7,877
1934	665,743	9,645	512	8,990
1935	707,457	10,648	560	9,839
1936	755,765	11,388	546	10,251
1937	802,765	13,906	766	12,092
1938	866,729	13,715	640	11,683
1939	899,572	13,710	652	11,638
1940	937,551	16,921	716	13,715
1941	986,773	18,167	801	14,275
1942	961,883	13,490	567	10,205
1943	919,457	11,025	549	8,628
1944	905,650	11,004	498	8,373
1945	971,852	13,458	598	9,804
1946	1,087,445	17,356	688	12,228
1947	1,144,291	22,293	734	13,056
1948	1,209,408	27,406	740	14,970
1949	1,278,584	34,472	830	17,469
1950	1,366,388	43,681	791	19,940
1951	1,461,538	54,920	949	22,557
1952	1,556,559	58,515	1,010	23,643
1953	1,656,259	65,866	1,082	24,353
1954	1,747,567	62,509	1,045	24,607
1955	1,856,845	63,219	1,111	26,246
1956	1,967,789	71,399	1,180	28,626
1957	2,088,551	76,302	1,279	30,414
1958	2,176,417	76,884	1,112	30,106
1959	2,270,246	81,518	1,187	31,602
1960	2,355,567	87,186	1,166	34,436
1961	2,414,615	85,577	1,268	37,146
1962	2,469,425	94,231	1,383	41,766
1963	2,555,015	104,919	1,421	47,801
1964	2,694,023	111,232	1,424	54,560
1965	2,739,138	128,462	1,611	60,917
1966	2,821,648	139,781	1,596	65,210
1967	3,004,654	145,008	1,719	67,280
1968	3,128,509	155,127	1,586	71,520
1969	3,247,979	169,395	1,683	74,902
1970	3,422,892	141,609	1,535	75,126
1971	3,563,197	158,831	1,769	84,650
1972	3,688,541	189,494	1,934	95,181

Continued on next page

**Table 2.19** Licensed Drivers, Total Collisions, Persons Killed and Injured 1931-1996

Year	Licensed Drivers	Total Collisions	Persons Killed	Persons Injured
1973	3,841,628	193,021	1,959	97,790
1974	3,972,980	204,271	1,748	98,673
1975	4,160,623	213,689	1,800	97,034
1976	4,315,925	211,865	1,511	83,736
1977	4,562,903	218,567	1,420	95,664
1978	4,725,546	186,363	1,450	94,979
1979	4,858,351	197,196	1,560	101,321
1980	4,993,531	196,501	1,508	101,367
1981	5,123,177	198,372	1,445	100,321
1982	5,247,198	187,943	1,138	92,815
1983	5,380,259	181,999	1,204	91,706
1984	5,513,911	194,782	1,132	97,230
1985	5,660,422	189,750	1,191	109,169
1986	5,817,799	187,286	1,102	108,839
1987	5,978,105	203,431	1,229	121,089
1988	6,118,112	228,398	1,237	118,158
1989	6,290,424	247,038	1,286	120,652
1990	6,448,883	220,188	1,120	101,575
1991	6,574,231	213,669	1,102	90,519
1992	6,688,761	224,249	1,090	91,025
1993	6,823,428	228,834	1,135	91,149
1994	6,983,960	226,996	999	90,030
1995	7,086,018	219,085	999	89,572
1996	7,258,167	215,024	929	88,445

**Table 2.20** Original Licences Issued  
1992-1996

Year	Original Licences
1992	227,434
1993	246,387
1994*	300,314
1995	241,412
1996	224,705

\* Graduated Licensing System (GLS) began on April 1, 1994.  
See Appendix for more explanation on GLS.

**Table 2.21** Original Driver Licences Issued\*  
1995-1996

Year	Licence Permits			
	G1	G2	M1	M2
1995	107,385	94,395	1,049	995
1996	139,385	47,637	653	683

\* Only includes drivers who did not have a previous Ontario licence of any class.

**Table 2.22 Driver Age Groups - Number Licensed, Collision Involvement and Per Cent Involved in Collisions 1996**

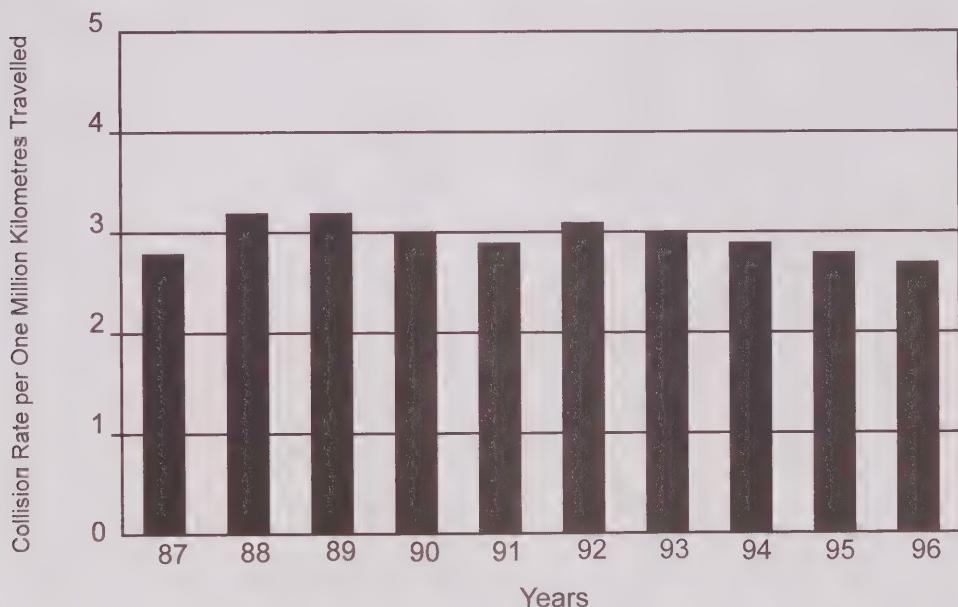
Drivers Age	Drivers Licensed			Drivers Involved in Collisions*			% of Drivers of Each Age Involved in Collisions		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Under 16	-	-	-	281	79	360	-	-	-
16	33,636	27,733	61,369	1,124	514	1,638	3.3	1.9	2.7
17	48,428	41,218	89,646	4,528	2,494	7,022	9.3	6.1	7.8
18	53,870	46,295	100,165	5,266	2,923	8,189	9.8	6.3	8.2
19	59,007	51,384	110,391	5,898	2,826	8,724	10.0	5.5	7.9
20	61,259	53,822	115,081	5,664	2,917	8,581	9.2	5.4	7.5
21-24	262,513	234,466	496,979	23,343	11,964	35,307	8.9	5.1	7.1
25-34	842,124	766,443	1,608,567	65,917	32,137	98,052	7.8	4.2	6.1
35-44	892,165	824,885	1,717,050	54,880	28,907	83,787	6.2	3.5	4.9
45-54	688,949	608,340	1,297,289	36,665	17,980	54,645	5.3	3.0	4.2
55-64	449,938	355,548	805,486	20,944	8,103	29,047	4.7	2.3	3.6
65-74	337,183	255,452	592,635	12,076	5,121	17,197	3.6	2.0	2.9
75 & over	153,523	109,986	263,509	5,678	2,638	8,316	3.7	2.4	3.2
Unknown	-	-	-	-	-	18,698	-	-	-
<b>Total</b>	<b>3,882,595</b>	<b>3,375,572</b>	<b>7,258,167</b>	<b>270,039</b>	<b>118,608</b>	<b>379,562</b>	<b>7.0</b>	<b>3.5</b>	<b>5.4</b>

\* This table excludes drivers of non-motor vehicles, i. e. bicyclists, snow vehicle operators, and ATVs etc.



**3****The Collision**

Collision Rate Per One Million Kilometres Travelled in Ontario - 1987 to 1996



### 3a. Types of Collisions

**Table 3.1 Class of Collision 1987-1996**

Year	Class of Collision			Total
	Fatal	Injury	Property	
1987	1,085	80,432	121,914	<b>203,431</b>
1988	1,076	76,724	150,598	<b>228,398</b>
1989	1,106	77,852	168,080	<b>247,038</b>
1990	959	65,912	153,317	<b>220,188</b>
1991	956	59,242	153,471	<b>213,669</b>
1992	942	58,889	164,418	<b>224,249</b>
1993	987	58,932	168,915	<b>228,834</b>
1994	875	58,525	167,596	<b>226,996</b>
1995	860	58,273	159,952	<b>219,085</b>
1996	816	57,791	156,417	<b>215,024</b>

**Table 3.2 Collision Rate Per One Million Kilometres Travelled 1987-1996**

Year	Collision Rate
1987	2.8
1988	3.2
1989	3.2
1990	3.0
1991	2.9
1992	3.1
1993	3.0
1994	2.9
1995	2.8
1996	2.7

**Table 3.3 Motor Vehicles Involved in Collisions Based on Initial Impact 1996\***

Motor Vehicle in Collision Involving	Class of Collision			Total
	Fatal	Personal	Property	
<b>Moveable Objects:</b>				
Other Motor Vehicles	818	85,384	225,847	<b>312,049</b>
Unattended Vehicles	10	705	11,533	<b>12,248</b>
Pedestrian	136	4,723	136	<b>4,995</b>
Cyclist	21	2,886	337	<b>3,244</b>
Railway Train	11	29	24	<b>64</b>
Street Car	1	52	215	<b>268</b>
Farm Tractor	1	37	109	<b>147</b>
Animal Domestic	2	89	623	<b>714</b>
Animal Wild	4	343	7,088	<b>7,435</b>
Other Moveable Objects	3	34	127	<b>164</b>
<b>Sub-total</b>	<b>1,007</b>	<b>94,282</b>	<b>246,039</b>	<b>341,328</b>
<b>Fixed Objects:</b>				
Cable Guide Rail	4	115	408	<b>527</b>
Concrete Guide Rail	-	190	525	<b>715</b>
Steel Guide Rail	3	282	1,033	<b>1,318</b>
Pole (Utility Tower)	3	476	1,365	<b>1,844</b>
Pole (Sign/Parking Meter)	-	118	774	<b>892</b>
Fence/Noise Barrier	-	32	258	<b>290</b>
Culvert	2	27	33	<b>62</b>
Bridge Support	1	63	126	<b>190</b>
Rock Face	2	20	42	<b>64</b>
Snow Bank or Drift	2	71	245	<b>318</b>
Ditch	11	347	774	<b>1,132</b>
Curb	16	577	1,705	<b>2,298</b>
Crash Cushion	-	20	27	<b>47</b>
Building or Wall	1	57	153	<b>211</b>
Water Course	1	6	12	<b>19</b>
Construction Marker	-	10	52	<b>62</b>
Tree, Shrub, or Stump	4	142	399	<b>545</b>
Other Fixed Object	6	266	1,346	<b>1,618</b>
<b>Sub-total</b>	<b>56</b>	<b>2,819</b>	<b>9,277</b>	<b>12,152</b>
<b>Other Events:</b>				
Ran Off Road	134	3,906	7,751	<b>11,791</b>
Skidding/Sliding	148	6,205	17,721	<b>24,074</b>
Jackknifing	1	36	140	<b>177</b>
Load Spill	-	10	84	<b>94</b>
Fire/Explosion	-	12	437	<b>449</b>
Submersion	-	2	4	<b>6</b>
Rollover	3	213	361	<b>577</b>
Debris on Road	3	100	775	<b>878</b>
Debris off Vehicle	6	119	755	<b>880</b>
Other Non-Collision Event	39	1,811	4,464	<b>6,314</b>
<b>Sub-total</b>	<b>334</b>	<b>12,414</b>	<b>32,492</b>	<b>45,240</b>
<b>Total</b>	<b>1,397</b>	<b>109,515</b>	<b>287,808</b>	<b>398,720</b>

\* Table 3.3 reflects the first event only for each vehicle in the collision.

Table 3.4

**Initial Impact Type**  
**by Class of Collision 1996**

Initial Impact Type	Class of Collision			<b>Total</b>
	Fatal	Personal	Property	
		Injury	Damage	
Approaching	175	1,565	2,208	<b>3,948</b>
Angle	105	7,616	15,917	<b>23,638</b>
Rear End	32	16,070	34,379	<b>50,481</b>
Sideswipe	37	3,408	16,968	<b>20,413</b>
Turning Movement	53	11,640	32,820	<b>44,513</b>
Single Motor Vehicle Unattended	12	707	11,647	<b>12,366</b>
Single Motor Vehicle Other	402	16,650	40,121	<b>57,173</b>
Other	-	134	2,345	<b>2,479</b>
Unknown	-	1	12	<b>13</b>
<b>Total</b>	<b>816</b>	<b>57,791</b>	<b>156,417</b>	<b>215,024</b>

**3b. Time and Environment****Table 3.5 Month of Occurrence by Class of Collision 1996**

Month of Occurrence	Class of Collision						Total	%
	Fatal	%	Personal Injury	%	Property Damage	%		
January	75	9.2	5,299	9.2	17,497	11.2	22,871	10.6
February	69	8.5	4,493	7.8	14,064	9.0	18,626	8.7
March	63	7.7	4,191	7.3	12,634	8.1	16,888	7.9
April	42	5.1	4,151	7.2	10,628	6.8	14,821	6.9
May	62	7.6	4,632	8.0	10,928	7.0	15,622	7.3
June	67	8.2	5,293	9.2	11,730	7.5	17,090	7.9
July	77	9.4	5,058	8.8	10,982	7.0	16,117	7.5
August	86	10.5	5,099	8.8	11,118	7.1	16,303	7.6
September	64	7.8	5,169	8.9	12,040	7.7	17,273	8.0
October	78	9.6	4,974	8.6	13,110	8.4	18,162	8.4
November	66	8.1	4,891	8.5	16,203	10.4	21,160	9.8
December	67	8.2	4,541	7.9	15,483	9.9	20,091	9.3
Total	816	100.0	57,791	100.0	156,417	100.0	215,024	100.0

**Table 3.6 Day of Week by Class of Collision 1996**

Day of Occurrence	Class of Collision						Total	%
	Fatal	%	Personal Injury	%	Property Damage	%		
Monday	112	13.7	7,726	13.4	21,215	13.6	29,053	13.5
Tuesday	99	12.1	8,368	14.5	23,598	15.1	32,065	14.9
Wednesday	95	11.6	8,347	14.4	22,400	14.3	30,842	14.3
Thursday	118	14.5	8,891	15.4	24,858	15.9	33,867	15.8
Friday	126	15.4	9,657	16.7	26,198	16.7	35,981	16.7
Saturday	145	17.8	8,664	15.0	22,507	14.4	31,316	14.6
Sunday	121	14.8	6,138	10.6	15,641	10.0	21,900	10.2
Total	816	100.0	57,791	100.0	156,417	100.0	215,024	100.0

Table 3.7 Hour of Occurrence by Class of Collision 1996

Hour of Occurrence A.M.	Class of Collision						Total	%
			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
12 to 1 a.m.	28	3.4	985	1.7	2,763	1.8	3,776	1.8
1 to 2 a.m.	35	4.3	1,117	1.9	2,838	1.8	3,990	1.9
2 to 3 a.m.	27	3.3	1,011	1.7	2,514	1.6	3,552	1.7
3 to 4 a.m.	27	3.3	644	1.1	1,778	1.1	2,449	1.1
4 to 5 a.m.	16	2.0	425	0.7	1,281	0.8	1,722	0.8
5 to 6 a.m.	16	2.0	467	0.8	1,512	1.0	1,995	0.9
<b>Sub-total</b>	<b>149</b>	<b>18.3</b>	<b>4,649</b>	<b>8.0</b>	<b>12,686</b>	<b>8.1</b>	<b>17,484</b>	<b>8.1</b>
6 to 7 a.m.	21	2.6	1,090	1.9	3,310	2.1	4,421	2.1
7 to 8 a.m.	33	4.0	2,155	3.7	6,218	4.0	8,406	3.9
8 to 9 a.m.	25	3.1	3,413	5.9	9,565	6.1	13,003	6.0
9 to 10 a.m.	32	3.9	2,454	4.2	7,192	4.6	9,678	4.5
10 to 11 a.m.	38	4.7	2,486	4.3	7,407	4.7	9,931	4.6
11 to 12 noon	30	3.7	3,055	5.3	8,305	5.3	11,390	5.3
<b>Sub-total</b>	<b>179</b>	<b>21.9</b>	<b>14,653</b>	<b>25.4</b>	<b>41,997</b>	<b>26.8</b>	<b>56,829</b>	<b>26.4</b>

## Hour of

## Occurrence P.M.

12 to 1 p.m.	34	4.2	3,441	6.0	8,968	5.7	12,443	5.8
1 to 2 p.m.	41	5.0	3,371	5.8	8,940	5.7	12,352	5.7
2 to 3 p.m.	48	5.9	3,599	6.2	9,510	6.1	13,157	6.1
3 to 4 p.m.	47	5.8	4,669	8.1	11,993	7.7	16,709	7.8
4 to 5 p.m.	38	4.7	4,755	8.2	12,300	7.9	17,093	7.9
5 to 6 p.m.	38	4.7	4,643	8.0	12,086	7.7	16,767	7.8
<b>Sub-total</b>	<b>246</b>	<b>30.1</b>	<b>24,478</b>	<b>42.4</b>	<b>63,797</b>	<b>40.8</b>	<b>88,521</b>	<b>41.2</b>
6 to 7 p.m.	44	5.4	3,745	6.5	9,612	6.1	13,401	6.2
7 to 8 p.m.	43	5.3	2,802	4.8	7,177	4.6	10,022	4.7
8 to 9 p.m.	37	4.5	2,065	3.6	5,647	3.6	7,749	3.6
9 to 10 p.m.	41	5.0	2,060	3.6	5,424	3.5	7,525	3.5
10 to 11 p.m.	34	4.2	1,696	2.9	4,470	2.9	6,200	2.9
11 to 12 midnight	38	4.7	1,403	2.4	4,004	2.6	5,445	2.5
<b>Sub-total</b>	<b>237</b>	<b>29.0</b>	<b>13,771</b>	<b>23.8</b>	<b>36,334</b>	<b>23.2</b>	<b>50,342</b>	<b>23.4</b>
Unknown	5	0.6	240	0.4	1,603	1.0	1,848	0.9
<b>Total</b>	<b>816</b>	<b>100.0</b>	<b>57,791</b>	<b>100.0</b>	<b>156,417</b>	<b>100.0</b>	<b>215,024</b>	<b>100.0</b>

**Table 3.8 Statutory Holidays, Holiday Weekends - Fatal Collisions, Persons Killed and Injured 1996**

Statutory Holiday*	Number of Fatal Collisions	Drivers		Passengers		Others		Total	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Easter Weekend	7	2	6	4	8	1	-	7	14
Victoria Day	12	7	8	4	14	1	-	12	22
Canada Day	6	4	4	4	7	-	-	8	11
Civic Holiday (Simcoe Day)	10	7	8	3	13	-	-	10	21
Labour Day	15	9	11	8	12	1	-	18	23
Thanksgiving Day	15	13	4	3	7	-	-	16	11
Christmas/Boxing Day	4	0	6	4	4	1	-	5	10

\* Actual length may vary depending on day holiday falls on. If holiday falls on a weekend then holiday includes the entire weekend.

**Table 3.9 Light Condition by Class of Collision 1996**

Light Condition	Class of Collision						Total	%
	Fatal	%	Personal	%	Property	%		
Daylight	431	52.8	40,050	69.3	104,859	67.0	145,340	67.6
Dawn	13	1.6	725	1.3	2,510	1.6	3,248	1.5
Dusk	24	2.9	1,947	3.4	5,560	3.6	7,531	3.5
Darkness	345	42.3	15,039	26.0	43,260	27.7	58,644	27.3
Other	3	0.4	30	0.1	228	0.1	261	0.1
Total	816	100.0	57,791	100.0	156,417	100.0	215,024	100.0

**Table 3.10 Visibility by Class of Collision 1996**

Visibility	Class of Collision						Total	%
	Fatal	%	Personal	%	Property	%		
Clear	644	78.9	42,910	74.3	111,139	71.1	154,693	71.9
Rain	71	8.7	8,644	15.0	21,994	14.1	30,709	14.3
Snow	60	7.4	4,329	7.5	16,915	10.8	21,304	9.9
Freezing Rain	10	1.2	560	1.0	2,052	1.3	2,622	1.2
Drifting Snow	10	1.2	417	0.7	1,463	0.9	1,890	0.9
Strong Wind	3	0.4	163	0.3	546	0.3	712	0.3
Fog, Mist, Smoke, or Dust	14	1.7	641	1.1	1,832	1.2	2,487	1.2
Other	4	0.5	127	0.2	476	0.3	607	0.3
Total	816	100.0	57,791	100.0	156,417	100.0	215,024	100.0

### 3c. The Collision Location

Table 3.11

Road Jurisdiction by Class of Collision 1996

Road Jurisdiction	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Municipal (Excl. Twp. Rd.)	189	31,396	81,395	112,980
Provincial Highway	341	12,203	34,323	46,867
Township	75	2,229	6,932	9,236
County or District	88	2,205	6,088	8,381
Regional Municipality	118	9,569	27,051	36,738
Federal	4	152	506	662
Other	1	37	122	160
Total	816	57,791	156,417	215,024

Table 3.12

Road Jurisdiction for All Collisions 1987-1996

Road Jurisdiction	Year										Total
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	
Municipal	135,949	159,228	139,926	117,218	112,651	117,800	119,421	117,478	114,848	112,980	1,247,499
Provincial	40,825	44,772	48,944	43,513	44,234	46,537	48,275	48,895	46,365	46,867	459,227
Township	10,460	12,277	11,882	10,684	10,332	10,777	10,667	10,497	9,774	9,236	106,586
County or District	7,024	7,527	8,773	8,582	8,482	9,186	9,076	8,839	8,815	8,381	84,685
Regional Municipality*	7,863	3,620	36,237	39,004	36,956	38,810	40,230	40,165	38,279	36,738	317,902
Federal**	-	748	940	913	769	899	863	825	753	662	7,372
Other	1,310	226	336	274	245	240	302	297	251	160	3,641
Total	203,431	228,398	247,038	220,188	213,669	224,249	228,834	226,996	219,085	215,024	2,226,912

\* Some collisions occurring on regional municipal roads were recorded as occurring on municipal roads prior to 1989.

\*\* Since January 1, 1988 the Motor Vehicle Accident Report form allows recording of jurisdiction for federal roads.

**Table 3.13** Road Location by Class of Collision 1996

Road Location	Class of Collision						Total	%
	Fatal	%	Personal	%	Property	%		
Non-intersection	505	61.9	20,994	36.3	63,907	40.9	85,406	39.7
Intersection Related	74	9.1	12,047	20.8	31,647	20.2	43,768	20.4
In Intersection	153	18.8	17,449	30.2	34,343	22.0	51,945	24.2
At/Near Private Drive	54	6.6	6,574	11.4	24,464	15.6	31,092	14.5
At Railway	10	1.2	97	0.2	282	0.2	389	0.2
Underpass or Tunnel	3	0.4	88	0.2	308	0.2	399	0.2
Overpass or Bridge	10	1.2	417	0.7	1,156	0.7	1,583	0.7
Other	7	0.9	125	0.2	310	0.2	442	0.2
<b>Total</b>	<b>816</b>	<b>100.0</b>	<b>57,791</b>	<b>100.0</b>	<b>156,417</b>	<b>100.0</b>	<b>215,024</b>	<b>100.0</b>

**Table 3.14** Road Surface Condition by Class of Collision 1996

Road Surface Condition	Class of Collision						Total	%
	Fatal	%	Personal	%	Property	%		
Dry	522	64.0	35,708	61.8	88,028	56.3	124,258	57.8
Wet	154	18.9	14,293	24.7	36,755	23.5	51,202	23.8
Loose Snow	23	2.8	1,659	2.9	7,258	4.6	8,940	4.2
Slush	24	2.9	1,201	2.1	4,179	2.7	5,404	2.5
Packed Snow	21	2.6	1,214	2.1	6,089	3.9	7,324	3.4
Ice	57	7.0	3,249	5.6	12,819	8.2	16,125	7.5
Mud	-	-	15	-	69	-	84	-
Loose Sand or Gravel	7	0.9	283	0.5	652	0.4	942	0.4
Spilled Liquid	1	0.1	12	-	31	-	44	-
Other	7	0.9	157	0.3	537	0.3	701	0.3
<b>Total</b>	<b>816</b>	<b>100.0</b>	<b>57,791</b>	<b>100.0</b>	<b>156,417</b>	<b>100.0</b>	<b>215,024</b>	<b>100.0</b>



**4****Place of Collision in Ontario**

## 4. Place of Collision in Ontario

Table 4.1

Location	Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
		Total	Fatal	Injury	Property Damage	Killed	Injured	
		Collisions						
ONTARIO	10,303,529	215,024	816	57,791	156,417	929	88,445	6,462,849
BLIND RIVER, T	3,911	28	-	8	20	-	13	
ELLIOT LAKE, C	M	12,387	89	-	15	74	-	19
SAULT STE MARIE, C	M	81,476	1,722	-	356	1,366	-	539
THESSALON, T		1,371	11	-	1	10	-	1
PROVINCIAL HIGHWAY		-	735	9	194	532	9	303
OTHER AREAS		13,964	251	2	43	206	2	74
ALGOMA		118,913	2,836	11	617	2,208	11	949
BRANTFORD, C	M	81,074	1,615	3	339	1,273	3	480
BRANTFORD, TP		6,241	7	-	1	6	-	3
PARIS, T	M	8,552	58	-	6	52	-	7
PROVINCIAL HIGHWAY		-	430	5	114	311	5	205
OTHER AREAS		1,336	298	4	89	205	4	141
BRANT		109,645	2,408	12	549	1,847	12	836
AMABEL, TP		3,577	4	-	-	4	-	-
BRANT, TP		3,267	2	-	1	1	-	2
CARRICK, TP		2,373	1	-	-	1	-	-
CHESLEY, T		1,815	11	-	2	9	-	2
KINCARDINE, T	M	6,318	81	-	17	64	-	22
PORT ELGIN, T	M	6,772	65	-	14	51	-	21
SOUTHHAMPTON, T	M	3,118	29	-	6	23	-	9
WALKERTON, T	M	4,735	54	-	22	32	-	26
WIARTON, T		2,350	17	-	3	14	-	5
PROVINCIAL HIGHWAY		-	272	2	58	212	2	98
OTHER AREAS		13,131	571	6	136	429	7	246
BRUCE		61,763	1,107	8	259	840	9	431
								48,868

## Legend

T	town	Other Areas -	Jurisdictions	M Municipal Police Force
C	city		with less than	
VL	village		1,500 population	
TP	township			

\* Source: Ontario Ministry of Municipal Affairs Municipal Directory 1994.

Population data in this table refers to persons residing in a municipality on a permanent basis.

Table 4.1

Continued

Location	Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
		Total	Fatal	Injury	Property	Killed	Injured	
		Collisions						
COCHRANE, T	4,357	50	-	10	40	-	15	
HEARST, T	5,529	71	-	11	60	-	12	
IROQUOIS FALLS, T	5,581	58	1	12	45	1	15	
KAPUSKASING, T	M 9,658	134	-	34	100	-	45	
SMOOTH ROCK FALLS, T	1,877	12	-	3	9	-	3	
TIMMINS, C	M 45,816	675	1	191	483	1	274	
PROVINCIAL HIGHWAY	-	643	10	175	458	11	274	
OTHER AREAS	5,311	181	1	60	120	1	83	
COCHRANE	83,507	1,824	13	496	1,315	14	721	66,801
AMARANTH, TP	3,247	2	-	-	2	-	-	
EAST GARAFRAXA, TP	2,037	3	-	-	3	-	-	
MELANCTHON, TP	2,286	3	-	-	3	-	-	
MONO, TP	5,980	3	-	1	2	-	2	
MULMUR, TP	2,509	3	-	2	1	-	2	
ORANGEVILLE, T	M 21,373	276	-	29	247	-	40	
SHELBOURNE, T	M 3,450	31	-	1	30	-	1	
PROVINCIAL HIGHWAY	-	311	5	76	230	5	174	
OTHER AREAS	-	362	3	86	273	4	142	
DUFFERIN	43,419	994	8	195	791	9	361	31,131
MORRISBURG, VL	2,362	13	-	1	12	-	1	
MOUNTAIN, TP	3,319	1	-	-	1	-	-	
WILLIAMSBURGH, TP	3,335	2	-	-	2	-	-	
WINCHESTER, TP	3,445	14	-	-	14	-	-	
WINCHESTER, VL	2,275	2	-	-	2	-	-	
PROVINCIAL HIGHWAY	-	178	1	41	136	1	87	(Veh. Reg.
OTHER AREAS	1,206	171	1	33	137	2	48	included in
DUNDAS	20,870	381	2	75	304	3	136	Stromont)
AJAX, T	58,854	540	-	153	387	-	233	
BROCK, TP	10,991	93	1	19	73	1	24	
CLARINGTON	61,305	23	1	4	18	1	5	
OSHAWA, C	133,500	2,119	7	528	1,584	8	794	
PICKERING, T	70,733	753	3	176	574	5	280	
SCUGOG, TP	17,880	159	-	45	114	-	74	
UXBRIDGE, TP	14,672	207	2	60	145	2	107	
WHITBY, T	67,325	949	2	267	680	2	407	
PROVINCIAL HIGHWAY	-	2,115	14	579	1,522	16	940	
OTHER AREAS	-	942	3	234	705	3	336	
DURHAM	435,260	7,900	33	2,065	5,802	38	3,200	278,743
ALDBOROUGH, TP	3,772	5	-	1	4	-	1	
AYLMER, T	M 6,275	80	-	10	70	-	14	
BAYHAM, TP	4,152	3	-	1	2	-	1	
DUNWICH, TP	2,279	1	-	1	-	-	1	
MALAHIDE, TP	5,671	6	-	1	5	-	1	
PORT STANLEY, VL	2,183	21	-	2	19	-	2	
SOUTHWOLD, TP	4,431	2	-	-	2	-	-	

Table 4.1

Continued

Location	Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
		Total	Fatal	Personal	Property	Killed	Injured	
		Collisions		Injury	Damage			
ST THOMAS, C	M 29,758	384	-	107	277	-	149	
YARMOUTH, TP	7,994	7	-	2	5	-	3	
PROVINCIAL HIGHWAY	-	431	6	149	276	6	243	
OTHER AREAS	6,033	367	4	101	262	4	158	
<b>ELGIN</b>	<b>74,354</b>	<b>1,307</b>	<b>10</b>	<b>375</b>	<b>922</b>	<b>10</b>	<b>573</b>	<b>57,326</b>
AMHERSTBURG, T	M 9,905	74	-	13	61	-	22	
ANDERDON, TP	M 5,725	12	-	4	8	-	5	
BELLE RIVER, T	4,353	20	-	8	12	-	9	
COLCHESTER SOUTH, TP	M 5,625	4	-	-	4	-	-	
ESSEX, T	M 6,745	67	-	11	56	-	19	
GOSFIELD NORTH, TP	4,765	4	-	2	2	-	2	
GOSFIELD SOUTH, TP	7,604	4	-	-	4	-	-	
HARROW, T	2,656	24	-	3	21	-	3	
KINGSVILLE, T	M 5,841	52	-	17	35	-	21	
LEAMINGTON, T	M 14,982	297	-	50	247	-	56	
MAIDSTONE, TP	10,764	7	-	3	4	-	3	
MALDEN, TP	3,220	3	-	-	3	-	-	
MERSEA, TP	M 8,787	7	-	-	7	-	-	
ROCHESTER, TP	4,465	1	-	1	-	-	1	
SANDWICH SOUTH, TP	6,475	6	-	5	1	-	5	
ST CLAIR BEACH, VL	M 3,669	15	-	2	13	-	2	
TECUMSEH, T	11,913	102	-	27	75	-	37	
WINDSOR, C	M 195,627	3,217	3	1,030	2,184	4	1,475	
PROVINCIAL HIGHWAY	-	643	13	176	454	18	304	
OTHER AREAS	275	1,037	14	291	732	14	433	
<b>ESSEX</b>	<b>341,208</b>	<b>5,596</b>	<b>30</b>	<b>1,643</b>	<b>3,923</b>	<b>36</b>	<b>2,397</b>	<b>220,205</b>
KINGSTON, C	M 59,624	1,106	2	292	812	2	413	
KINGSTON, TP	39,679	19	-	7	12	-	12	
LOUGHBOROUGH, TP	4,436	1	-	-	1	-	-	
PITTSBURGH, TP	10,675	3	-	-	3	-	-	
PORTLAND, TP	4,529	1	-	-	1	-	-	
PROVINCIAL HIGHWAY	-	463	6	126	331	6	225	
OTHER AREAS	7,866	912	5	227	680	6	377	
<b>FRONTENAC</b>	<b>130,723</b>	<b>2,505</b>	<b>13</b>	<b>652</b>	<b>1,840</b>	<b>14</b>	<b>1,027</b>	<b>83,005</b>
ALEXANDRIA, T	M 3,272	40	1	8	31	1	12	
CHARLOTTENBURGH, TP	7,670	1	-	-	1	-	-	
KENYON, TP	3,336	1	-	-	1	-	-	
LANCASTER, TP	3,684	6	-	-	6	-	-	
LOCHIEL, TP	2,921	1	-	-	1	-	-	
PROVINCIAL HIGHWAY	-	233	2	71	160	2	115	(Veh. Reg.
OTHER AREAS	1,580	176	4	53	119	4	80	included in
<b>GLEN GARRY</b>	<b>22,463</b>	<b>458</b>	<b>7</b>	<b>132</b>	<b>319</b>	<b>7</b>	<b>207</b>	<b>Stormont)</b>
AUGUSTA, TP	7,285	13	-	1	12	-	1	
CARDINAL, VL	M 1,580	1	-	-	1	-	-	
EDWARDSBURG, TP	4,566	9	-	2	7	-	4	

Table 4.1

Continued

Location		Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
			Total	Fatal	Injury	Property Damage	Killed	Injured	
			Collisions						
KEMPTVILLE, T	M	2,721	19	1	8	10	1	10	
OXFORD ON RIDEAU, TP		6,333	8	-	-	8	-	-	
PRESCOTT, T	M	3,999	50	-	17	33	-	24	
SOUTH GOWER, TP		2,280	1	-	-	1	-	-	
PROVINCIAL HIGHWAY		-	328	4	77	247	9	153	(Veh. Reg.
OTHER AREAS		2,450	310	-	57	253	-	96	included in
GRENVILLE		31,214	739	5	162	572	10	288	Leeds)
BENTICK, TP		3,396	1	-	1	-	-	2	
COLLINGWOOD, TP		3,390	1	-	-	1	-	-	
DURHAM, T	M	2,546	25	-	4	21	-	5	
EGREMONT, TP		2,391	5	-	3	2	-	6	
HANOVER, T	M	6,710	91	-	24	67	-	36	
KEPPEL, TP		3,751	2	-	-	2	-	-	
MEA FORD, T	M	4,330	27	-	6	21	-	8	
NORMANBY, TP		2,550	4	-	1	3	-	1	
OSPREY, TP		1,996	2	-	2	-	-	3	
OWEN SOUND, C	M	20,399	298	-	86	212	-	122	
PROTON, TP		1,783	2	-	-	2	-	-	
ST VINCENT, TP		2,296	1	-	-	1	-	-	
SULLIVAN, TP		2,655	2	-	1	1	-	1	
SYDENHAM, TP		2,997	1	-	-	1	-	-	
THORNBURY, T	M	1,647	10	-	-	10	-	-	
PROVINCIAL HIGHWAY		-	475	2	150	323	2	275	
OTHER AREAS		4,662	745	7	158	580	8	245	
GREY		81,960	1,692	9	436	1,247	10	704	55,282
DELHI, TP		15,134	127	1	37	89	1	64	
DUNNVILLE, T		11,908	120	1	25	94	1	33	
HALDIMAND, T		20,824	81	2	15	64	2	23	
NANTICOKE, C		22,401	213	2	58	153	3	92	
NORFOLK, TP		11,096	67	-	19	48	-	33	
SIMCOE, T		15,538	277	-	67	210	-	92	
PROVINCIAL HIGHWAY		-	359	8	122	229	9	225	
OTHER AREAS		-	392	2	100	290	4	146	
HALDIMAND-NORFOLK		96,901	1,636	16	443	1,177	20	708	76,011
ANSON, HINDON & MINDEN, TP		3,160	6	-	1	5	-	2	
DYSART ET AL, TP		4,702	7	-	2	5	-	3	
PROVINCIAL HIGHWAY		-	255	2	61	192	2	97	
OTHER AREAS		6,033	166	1	35	130	1	56	
HALIBURTON		13,895	434	3	99	332	3	158	11,950
BURLINGTON, C		128,453	1,434	4	393	1,037	4	580	
HALTON HILLS, T		40,173	519	1	107	411	1	169	
MILTON, T		30,278	604	7	152	445	8	242	
OAKVILLE, T		118,063	1,171	6	262	903	6	378	
PROVINCIAL HIGHWAY		-	1,900	6	455	1,439	6	730	
OTHER AREAS		-	71	1	11	59	1	14	
HALTON		316,967	5,699	25	1,380	4,294	26	2,113	221,774

Table 4.1

Continued

Location	Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
		Total Collisions	Fatal	Injury	Property Damage	Killed	Injured	
BANCROFT, T	2,340	64	-	11	53	-	16	
BELLEVILLE, C	M 34,954	776	1	176	599	1	249	
DESERONTO, T	M 1,728	11	-	3	8	-	4	
FRANKFORD, VL	2,012	7	-	2	5	-	4	
HUNGERFORD, TP	3,024	2	-	-	2	-	-	
HUNTINGDON, TP	2,216	1	-	-	1	-	-	
MADOC, TP	1,831	2	-	-	2	-	-	
SIDNEY, TP	15,926	11	-	1	10	-	1	
STIRLING, VL	M 1,998	13	1	2	10	1	7	
THURLOW, TP	7,327	6	-	1	5	-	1	
TRENTON, C	M 16,908	280	1	59	220	1	87	
PROVINCIAL HIGHWAY	-	686	7	191	488	8	322	
OTHER AREAS	13,530	706	4	153	549	5	235	
<b>HASTINGS</b>	<b>111,667</b>	<b>2,565</b>	<b>14</b>	<b>599</b>	<b>1,952</b>	<b>16</b>	<b>926</b>	<b>88,046</b>
ASHFIELD, TP	1,849	1	-	-	1	-	-	
CLINTON, T	M 3,183	44	-	7	37	-	11	
EXETER, T	M 4,384	64	-	21	43	-	40	
GODERICH, T	M 7,500	93	-	17	76	-	23	
GODERICH, TP	2,607	3	-	-	3	-	-	
GREY, TP	2,036	1	-	1	-	-	4	
HAY, TP	2,184	1	-	1	-	-	3	
SEAFORTH, T	M 2,316	19	-	2	17	-	4	
STEPHEN, TP	4,182	1	-	-	1	-	-	
TUCKERSMITH, TP	3,036	1	-	-	1	-	-	
TURNBERRY, TP	1,739	1	-	1	-	-	2	
WINGHAM, T	M 2,921	39	-	7	32	-	9	
PROVINCIAL HIGHWAY	-	391	3	104	284	4	184	
OTHER AREAS	9,010	427	6	90	331	9	147	
<b>HURON</b>	<b>59,279</b>	<b>1,086</b>	<b>9</b>	<b>251</b>	<b>826</b>	<b>13</b>	<b>427</b>	<b>40,092</b>
DRYDEN, T	M 6,300	115	-	15	100	-	19	
IGNACE, TP	1,770	5	-	2	3	-	3	
JAFFRAY MELICK, T	4,012	11	-	3	8	-	3	
KEEWATIN, T	1,994	17	-	4	13	-	9	
KENORA, T	M 9,715	252	-	42	210	-	65	
RED LAKE, TP	2,061	5	-	1	4	-	1	
SIOUX LOOKOUT, T	3,400	66	1	10	55	1	12	
PROVINCIAL HIGHWAY	-	720	6	146	568	6	256	
OTHER AREAS	4,399	251	2	53	196	2	86	
<b>KENORA</b>	<b>35,834</b>	<b>1,442</b>	<b>9</b>	<b>276</b>	<b>1,157</b>	<b>9</b>	<b>454</b>	<b>38,984</b>
BLENHEIM, T	4,567	51	-	10	41	-	11	
CAMDEN, TP	2,067	1	-	-	1	-	-	
CHATHAM, C	M 43,555	799	2	231	566	3	304	
CHATHAM, TP	6,059	2	-	-	2	-	-	
DOVER, TP	3,973	2	-	-	2	-	-	
DRESDEN, T	M 2,492	23	-	4	19	-	5	

Table 4.1

Continued

Location	Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
		Total	Fatal	Injury	Property Damage	Killed	Injured	
		Collisions						
HARWICH, TP	6,116	7	-	3	4	-	4	
HOWARD, TP	2,249	1	-	-	1	-	-	
RALEIGH, TP	5,209	2	-	1	1	-	2	
RIDGETOWN, T	3,234	27	-	5	22	-	6	
ROMNEY, TP	1,946	1	-	-	1	-	-	
TILBURY EAST, TP	2,282	48	-	10	38	-	14	
TILBURY, T	M 4,254	3	-	1	2	-	1	
WALLACEBURG, T	M 10,992	122	1	22	99	1	37	
WHEATLEY, VL	1,557	13	-	1	12	-	1	
PROVINCIAL HIGHWAY	-	402	6	126	270	6	219	
OTHER AREAS	5,243	444	6	157	281	7	233	
<b>KENT</b>	<b>105,795</b>	<b>1,948</b>	<b>15</b>	<b>571</b>	<b>1,362</b>	<b>17</b>	<b>837</b>	<b>78,737</b>
BOSANQUET, TP	4,899	24	-	4	20	-	5	
BROOKE, TP	1,877	3	-	-	3	-	-	
DAWN, TP	1,503	1	-	-	1	-	-	
ENNISKILLEN, TP	3,159	4	-	-	4	-	-	
FOREST, T	2,795	30	-	3	27	-	4	
MOORE, TP	10,684	2	-	1	1	-	1	
PETROLIA, T	M 4,809	47	-	6	41	-	7	
PLYMPTON, TP	5,116	1	-	-	1	-	-	
POINT EDWARD, VL	M 2,277	20	-	10	10	-	15	
SARNIA, C	M 69,657	1,124	2	223	899	2	337	
SOMBRA, TP	4,081	1	-	-	1	-	-	
WARWICK, TP	2,446	3	-	-	3	-	-	
WYOMING, VL	2,077	8	-	2	6	-	2	
PROVINCIAL HIGHWAY	-	362	5	100	257	5	179	
OTHER AREAS	5,060	442	4	124	314	4	192	
<b>LAMBTON</b>	<b>122,140</b>	<b>2,072</b>	<b>11</b>	<b>473</b>	<b>1,588</b>	<b>11</b>	<b>742</b>	<b>87,126</b>
ALMONTE, T	4,352	33	-	8	25	-	8	
CARLETON PLACE, T	M 7,483	83	-	16	67	-	22	
MONTAGUE, TP	3,557	2	-	-	2	-	-	
PAKENHAM, TP	1,872	3	-	1	2	-	1	
PERTH, T	M 5,524	133	-	33	100	-	54	
RAMSAY, TP	4,011	1	-	-	1	-	-	
SMITHS FALLS, T	M 9,001	190	-	25	165	-	35	
PROVINCIAL HIGHWAY	-	327	8	85	234	11	148	
OTHER AREAS	4,513	412	3	87	322	3	139	
<b>LANARK</b>	<b>55,284</b>	<b>1,184</b>	<b>11</b>	<b>255</b>	<b>918</b>	<b>14</b>	<b>407</b>	<b>40,171</b>
BROCKVILLE, C	M 21,103	404	2	74	328	2	115	
ELIZABETHTOWN, TP	7,497	5	-	1	4	-	1	
F LEEDS & LANSDOWNE, TP	4,798	9	1	1	7	1	6	
FRONT OF YONGE, TP	2,337	6	-	5	1	-	8	
GANANOQUE, T	M 4,973	72	-	12	60	-	20	
KITLEY, TP	2,236	1	-	-	1	-	-	
R LEEDS & LANSDOWNE, TP	2,689	2	-	-	2	-	-	

Table 4.1

Continued

Location	Estimated Population (1994)*	Class of Collision					Persons		Motor Vehicle Registrations
		Total	Fatal	Personal Injury	Property Damage	Killed	Injured		
		Collisions							
REAR OF YONGE & ESCOTT, TP	1,883	8	-	-	8	-	-		
SOUTH CROSBY, TP	1,771	1	-	-	1	-	-		
SOUTH ELM斯LEY, TP	3,312	2	-	1	1	-	3	(Veh. Reg.)	
PROVINCIAL HIGHWAY	-	450	3	148	299	3	239	includes	
OTHER AREAS	4,056	354	1	99	254	1	164	Grenville)	
<b>LEEDS</b>	<b>59,163</b>	<b>1,314</b>	<b>7</b>	<b>341</b>	<b>966</b>	<b>7</b>	<b>556</b>	<b>65,938</b>	
ERNESTOWN, TP	12,177	7	-	3	4	-	6		
N FREDERICKSBURGH, TP	3,095	2	-	1	1	-	2		
NAPANEE, T	4,955	136	-	29	107	-	44		
PROVINCIAL HIGHWAY	-	404	3	124	277	3	220		
OTHER AREAS	7,749	315	1	75	239	1	124		
<b>LENNOX &amp; ADDINGTON</b>	<b>36,323</b>	<b>864</b>	<b>4</b>	<b>232</b>	<b>628</b>	<b>4</b>	<b>396</b>	<b>23,567</b>	
PROVINCIAL HIGHWAY	-	150	2	37	111	2	54		
OTHER AREAS	7,069	121	3	29	89	4	43		
<b>MANITOULIN</b>	<b>7,069</b>	<b>271</b>	<b>5</b>	<b>66</b>	<b>200</b>	<b>6</b>	<b>97</b>	<b>9,495</b>	
ADELAIDE, TP	2,000	3	-	1	2	-	1		
BIDDULPH, TP	2,194	5	-	4	1	-	5		
CARADOC, TP	6,117	5	-	1	4	-	1		
DELAWARE, TP	2,465	2	-	-	2	-	-		
EKFRID, TP	2,202	2	-	-	2	-	-		
GLENCOE, VL	2,054	19	-	5	14	-	7		
LOBO, TP	5,464	1	-	-	1	-	-		
LONDON, C	M	325,437	6,175	20	1,891	4,264	23	2,800	
LONDON, TP		4,741	8	-	1	7	-	1	
LUCAN, VL		1,950	7	-	4	3	-	5	
MCGILLIVRAY, TP		1,843	2	-	1	1	-	1	
NORTH DORCHESTER, TP		8,144	7	-	-	7	-	-	
STRATHROY, T	M	10,981	5	-	1	4	-	3	
WEST NISSOURI, TP		3,524	96	1	26	69	1	46	
PROVINCIAL HIGHWAY	-	858	10	226	622	12	389		
OTHER AREAS		6,331	705	11	202	492	13	318	
<b>MIDDLESEX</b>	<b>387,124</b>	<b>7,900</b>	<b>42</b>	<b>2,363</b>	<b>5,495</b>	<b>49</b>	<b>3,577</b>	<b>240,621</b>	
GEORGIAN BAY, TP		2,074	147	-	33	114	-	43	
GRAVENHURST, T		8,941	93	-	21	72	-	31	
HUNTSVILLE, T		18,000	117	-	23	94	-	32	
LAKE OF BAYS, TP		2,588	2	-	1	1	-	1	
MUSKOZA LAKES, TP		5,715	29	-	5	24	-	7	
PROVINCIAL HIGHWAY	-	689	7	171	511	7	292		
OTHER AREAS	-	317	-	57	260	-	84		
<b>MUSKOZA</b>	<b>51,418</b>	<b>1,394</b>	<b>7</b>	<b>311</b>	<b>1,076</b>	<b>7</b>	<b>490</b>	<b>37,580</b>	
FORT ERIE, T		26,221	369	3	94	272	3	141	
GRIMSBY, T		18,925	210	1	49	160	1	78	
LINCOLN, T		19,000	213	-	55	158	-	88	
NIAGARA FALLS, C		76,895	1,465	6	348	1,111	6	525	

Table 4.1

Continued

Location	Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
		Total	Fatal	Personal	Property	Killed	Injured	
		Collisions		Injury	Damage			
NIAGARA ON THE LAKE, T	12,695	147	-	41	106	-	63	
PELHAM, T	13,956	125	-	26	99	-	31	
PORT COLBORNE, C	18,389	239	1	46	192	1	68	
ST CATHARINES, C	130,000	2,175	6	455	1,714	6	651	
THOROLD, C	18,000	190	1	48	141	3	63	
WAINFLEET, TP	6,139	54	1	13	40	1	21	
WELLAND, C	47,423	779	1	161	617	1	247	
WEST LINCOLN, TP	11,060	92	-	28	64	-	47	
PROVINCIAL HIGHWAY	-	1,754	6	497	1,251	6	848	
OTHER AREAS	-	447	5	112	330	5	166	
<b>NIAGARA</b>	<b>398,703</b>	<b>8,259</b>	<b>31</b>	<b>1,973</b>	<b>6,255</b>	<b>33</b>	<b>3,037</b>	<b>268,126</b>
BONFIELD, TP	2,027	2	-	1	1	-	1	
CALDWELL, TP	1,569	2	-	1	1	-	1	
EAST FERRIS, TP	4,153	2	-	1	1	-	1	
MATTAWA, T	2,472	16	-	-	16	-	-	
NORTH BAY C	M	56,000	693	-	177	516	-	277
SPRINGER, TP		2,434	2	-	2	-	-	5
STURGEON FALLS, T	M	6,161	65	-	10	55	-	16
PROVINCIAL HIGHWAY	-	701	6	186	509	6	301	
OTHER AREAS		5,752	182	-	46	136	-	68
<b>NIPISSING</b>	<b>80,568</b>	<b>1,665</b>	<b>6</b>	<b>424</b>	<b>1,235</b>	<b>6</b>	<b>670</b>	<b>57,640</b>
BRIGHTON, TP		3,418	1	-	-	1	-	-
BRIGHTON, T		4,199	28	-	2	26	-	2
CAMPBELLFORD, T		3,305	45	-	7	38	-	11
COBOURG, T	M	15,037	216	-	52	164	-	82
COLBORNE, VL		1,971	5	-	1	4	-	1
HALDIMAND, TP		4,131	5	-	3	2	-	6
HAMILTON, TP		9,470	6	-	1	5	-	2
MURRAY, TP		6,841	10	-	1	9	-	2
PORT HOPE, T	M	11,040	2	-	-	2	-	-
SEYMOUR, TP		4,226	104	1	24	79	1	35
PERCY, TP		3,082	2	-	1	1	-	2
PROVINCIAL HIGHWAY	-	660	6	178	476	6	330	
OTHER AREAS		2,079	428	6	116	306	6	176
<b>NORTHUMBERLAND</b>	<b>75,471</b>	<b>1,512</b>	<b>13</b>	<b>386</b>	<b>1,113</b>	<b>13</b>	<b>649</b>	<b>53,126</b>
CUMBERLAND, TP		44,630	229	1	62	166	2	92
GLoucester, C	M	106,900	922	3	194	725	3	293
GOULBOURN, TP		19,350	142	1	31	110	1	45
KANATA, C		49,000	475	1	106	368	1	147
NEPEAN, C	M	116,000	1,511	4	347	1,160	5	552
OSGOODE, TP		15,207	184	1	37	146	1	65
OTTAWA, C	M	317,000	6,813	3	1,709	5,101	4	2,339
RIDEAU, TP		12,106	137	1	30	106	1	58
ROCKCLIFFE PARK, VL		2,183	18	-	2	16	-	2
VANIER, C		17,562	263	-	64	199	-	79

Table 4.1

Continued

Location	Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
		Total	Fatal	Injury	Property Damage	Killed	Injured	
		Collisions						
WEST CARLETON, TP	16,000	116	-	30	86	-	51	
PROVINCIAL HIGHWAY	-	1,558	12	395	1,151	12	649	
OTHER AREAS	-	744	4	165	575	4	240	
<b>OTTAWA-CARLETON</b>	<b>715,938</b>	<b>13,112</b>	<b>31</b>	<b>3,172</b>	<b>9,909</b>	<b>34</b>	<b>4,612</b>	<b>381,921</b>
EAST ZORRA-TAVISTOCK, TP	7,370	3	-	1	2	-	1	
INGERSOLL, T	M 9,545	94	-	11	83	-	17	
NORWICH, TP	M 10,302	18	1	2	15	1	2	
S WEST OXFORD, TP	8,427	5	-	2	3	-	2	
TILLSONBURG, T	M 12,729	138	-	45	93	-	83	
WOODSTOCK, C	M 31,252	628	-	124	504	-	191	
ZORRA, TP	8,182	3	-	1	2	-	1	
PROVINCIAL HIGHWAY	-	696	3	194	499	6	318	
OTHER AREAS	-	507	8	136	363	8	206	
<b>OXFORD</b>	<b>94,964</b>	<b>2,092</b>	<b>12</b>	<b>516</b>	<b>1,564</b>	<b>15</b>	<b>821</b>	<b>68,273</b>
HIMSWORTH NORTH, TP	2,993	3	-	-	3	-	-	
MCDougall, TP	2,162	1	-	-	1	-	-	
PERRY, TP	2,023	1	-	1	-	-	2	
PROVINCIAL HIGHWAY	-	689	10	180	499	15	347	
OTHER AREAS	17,426	354	8	72	274	10	104	
<b>PARRY SOUND</b>	<b>33,614</b>	<b>1,048</b>	<b>18</b>	<b>253</b>	<b>777</b>	<b>25</b>	<b>453</b>	<b>34,576</b>
BRAMPTON, C	278,160	3,489	8	742	2,739	8	1,133	
CALEDON, T	39,832	695	4	151	540	4	228	
MISSISSAUGA, C	559,000	7,250	23	1,436	5,791	24	2,173	
PROVINCIAL HIGHWAY	-	3,026	11	703	2,312	14	1,138	
OTHER AREAS	-	300	-	61	239	-	90	
<b>PEEL</b>	<b>876,992</b>	<b>14,760</b>	<b>46</b>	<b>3,093</b>	<b>11,621</b>	<b>50</b>	<b>4,762</b>	<b>511,896</b>
LOGAN, TP	2,184	49	-	6	43	-	6	
MITCHELL, T	3,518	29	-	11	18	-	15	
ST MARYS, T	M 5,493	58	-	14	44	-	24	
STRATFORD, C	M 28,700	568	1	111	456	1	169	
PROVINCIAL HIGHWAY	-	371	4	95	272	4	171	
OTHER AREAS	1,340	398	11	119	268	14	204	
<b>PERTH</b>	<b>70,869</b>	<b>1,473</b>	<b>16</b>	<b>356</b>	<b>1,101</b>	<b>19</b>	<b>589</b>	<b>47,668</b>
BELMONT & METHUEN, TP	2,877	3	-	-	3	-	-	
CAVAN, TP	5,344	2	-	1	1	-	1	
DOURO, TP	3,524	1	-	-	1	-	-	
DUMMER, TP	2,847	1	-	-	1	-	-	
HARVEY, TP	3,059	4	-	1	3	-	1	
LAKEFIELD, VL	2,387	9	-	5	4	-	6	
OTONABEE, TP	5,060	1	-	1	-	-	1	
PETERBOROUGH, C	M 66,494	884	-	339	545	-	447	
SMITH, TP	8,692	6	-	1	5	-	1	
PROVINCIAL HIGHWAY	-	538	4	177	357	7	352	
OTHER AREAS	8,983	527	1	132	394	2	188	
<b>PETERBOROUGH</b>	<b>115,924</b>	<b>1,976</b>	<b>5</b>	<b>657</b>	<b>1,314</b>	<b>9</b>	<b>997</b>	<b>81,963</b>
ALFRED, TP	2,216	2	-	1	1	-	1	

Table 4.1

Continued

Location	Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
		Total	Fatal	Injury	Damage	Killed	Injured	
		Collisions						
CASSELMAN, VL	2,586	17	-	3	14	-	5	
E HAWKESBURY, TP	3,153	2	-	1	1	-	1	
HAWKESBURY, T	M 9,871	208	-	33	175	-	42	
L'ORIGNAL, VL	1,971	7	-	2	5	-	3	
ROCKLAND, T	7,547	49	-	8	41	-	9	
RUSSELL, TP	11,417	5	-	2	3	-	3	
SOUTH PLANTAGENET, TP	1,788	1	-	-	1	-	-	
VANKLEEK HILL, T	1,941	13	-	2	11	-	2	
W HAWKESBURY, TP	2,957	2	-	1	1	-	1	(Veh. Reg. includes Russell)
PROVINCIAL HIGHWAY	-	216	5	70	141	5	118	
OTHER AREAS	4,252	230	1	71	158	1	100	
PREScott	<b>52,993</b>	<b>752</b>	<b>6</b>	<b>194</b>	<b>552</b>	<b>6</b>	<b>285</b>	<b>56,660</b>
AMELIASBURG, TP	5,235	3	-	1	2	-	1	
HALLOWELL, TP	4,101	3	-	-	3	-	-	
HILLIER, TP	1,700	1	-	-	1	-	-	
PICTON, T	4,077	68	-	16	52	-	19	
PROVINCIAL HIGHWAY	-	131	2	16	113	3	32	
OTHER AREAS	4,026	247	2	52	193	2	82	
PRINCE EDWARD	<b>22,746</b>	<b>453</b>	<b>4</b>	<b>85</b>	<b>364</b>	<b>5</b>	<b>134</b>	<b>17,615</b>
ATIKOKAN, TP	M 3,632	22	-	4	18	-	4	
FORT FRANCES, T	M 8,514	227	-	35	192	-	47	
PROVINCIAL HIGHWAY	-	228	3	52	173	3	78	
OTHER AREAS	6,429	94	-	19	75	-	33	
RAINY RIVER	<b>18,575</b>	<b>571</b>	<b>3</b>	<b>110</b>	<b>458</b>	<b>3</b>	<b>162</b>	<b>17,692</b>
ALICE & FRASER, TP	3,955	1	-	-	1	-	-	
ARNPRIOR, T	6,376	77	-	20	57	-	35	
DEEP RIVER, T	M 4,278	20	-	4	16	-	5	
PEMBROKE, C	M 13,445	287	-	68	219	-	103	
PETAWAWA, TP	8,430	1	-	1	-	-	1	
PETAWAWA, VL	6,016	23	-	7	16	-	8	
RENFREW, T	M 7,665	97	2	17	78	2	32	
STAFFORD & PEMBROKE, TP	4,603	2	-	-	2	-	-	
PROVINCIAL HIGHWAY	-	557	6	155	396	8	246	
OTHER AREAS	14,873	570	7	149	414	7	215	
RENFREW	<b>90,601</b>	<b>1,635</b>	<b>15</b>	<b>421</b>	<b>1,199</b>	<b>17</b>	<b>645</b>	<b>67,594</b>
CAMBRIDGE, TP	6,002	2	-	1	1	-	2	
CLARENCE, TP	10,069	1	-	-	1	-	-	
PROVINCIAL HIGHWAY	-	143	3	28	112	3	52	(Veh. Reg. included in Prescott)
OTHER AREAS	1,441	281	2	71	208	2	117	
RUSSELL	<b>17,512</b>	<b>427</b>	<b>5</b>	<b>100</b>	<b>322</b>	<b>5</b>	<b>171</b>	<b>Prescott</b>
ADJALA-TOSORONTIO, TP	8,896	2	-	-	2	-	-	
BARRIE, C	M 71,413	1,498	1	308	1,189	1	465	
BRADFORD W GWILLIMBURY, T	M 18,222	227	-	51	176	-	68	
COLLINGWOOD, T	M 14,673	281	-	65	216	-	105	
ESSA, TP	15,745	9	-	2	7	-	2	

Table 4.1

Continued

Location		Estimated Population	Class of Collision				Persons		Motor Vehicle Registrations
			Total	Fatal	Injury	Property	Killed	Injured	
			(1994)*	Collisions					
INNISFIL, T	M	22,523	139	2	36	101	2	58	
MIDLAND, T	M	14,284	294	1	78	215	1	101	
NEW TECUMSETH, T		20,767	159	-	27	132	-	38	
ORILIA, C		27,384	470	-	115	355	-	171	
PENETANGUISHENE, T	M	6,948	76	-	13	63	-	24	
TAY, TP		10,058	5	-	-	5	-	-	
TINY, TP		8,204	6	-	2	4	-	2	
WASAGA BEACH, T		7,463	126	-	35	91	-	47	
PROVINCIAL HIGHWAY		-	2,143	13	514	1,616	18	906	
OTHER AREAS		-	1,437	12	373	1,052	14	591	
SIMCOE		305,502	6,872	29	1,619	5,224	36	2,578	228,382
CORNWALL, C	M	46,802	893	2	238	653	2	346	(Veh. Reg.)
PROVINCIAL HIGHWAY		-	245	4	66	175	4	126	incl. Dundas
OTHER AREAS		441	184	-	39	145	-	48	& Glengarry)
STORMONT		64,384	1,322	6	343	973	6	520	71,525
CAPREOL, T		3,621	24	-	6	18	-	8	
ESPAÑOLA, T		5,144	51	-	13	38	-	13	
NICKEL CENTRE, T		12,129	70	2	18	50	2	34	
ONAPING FALLS, T		5,068	16	-	1	15	-	2	
RAYSIDE-BALFOUR, T		15,039	94	2	26	66	2	47	
SUDBURY, C	M	87,087	1,839	7	462	1,370	9	694	
VALLEY EAST, T		22,102	162	-	63	99	-	103	
WALDEN, T		9,753	74	-	19	55	-	30	
PROVINCIAL HIGHWAY		-	786	14	216	556	16	374	
OTHER AREAS		-	415	1	114	300	1	176	
SUDBURY		159,943	3,531	26	938	2,567	30	1,481	129,406
GERALDTON, T		2,578	29	-	4	25	-	6	
LONGLAC, T		1,833	33	-	4	29	-	4	
MANITOOWADGE, TP		3,554	22	-	3	19	-	3	
MARATHON, T	M	4,702	29	-	3	26	-	5	
NIPIGON, TP		2,095	12	-	2	10	-	2	
OLIVER, TP		2,488	5	-	-	5	-	-	
PAIPOONGE, TP		3,064	1	-	-	1	-	-	
SCHREIBER, TP		1,762	3	-	2	1	-	2	
SHUNIAH, TP		2,144	2	-	-	2	-	-	
TERRACE BAY, TP		2,309	12	-	4	8	-	5	
THUNDER BAY, C	M	113,562	2,290	6	442	1,842	7	639	
PROVINCIAL HIGHWAY		-	1,073	12	258	803	16	444	
OTHER AREAS		4,726	252	3	38	211	4	59	
THUNDER BAY		144,817	3,763	21	760	2,982	27	1,169	117,593
ENGLEHART, T		1,655	9	-	3	6	-	4	
HAILEYBURY, T		4,666	43	-	6	37	-	10	
KIRKLAND LAKE, T	M	10,330	124	-	17	107	-	19	
NEW LISKEARD, T	M	4,986	96	-	14	82	-	19	
PROVINCIAL HIGHWAY		-	376	2	101	273	2	198	
OTHER AREAS		12,372	115	-	20	95	-	33	
TIMISKAMING		34,009	763	2	161	600	2	283	27,766

Table 4.1

Continued

Location	Estimated Population (1994)*	Class of Collision					Persons		Motor Vehicle Registrations	
		Total		Personal		Property	Killed			
		Collisions	Fatal	Injury	Damage		Injured			
EAST YORK, BOROUGH	98,594	926	-	327	599	-	476			
ETOBICOKE, C	309,993	4,706	4	1,644	3,058	4	2,425			
NORTH YORK, C	557,869	12,106	12	4,086	8,008	12	6,408			
SCARBOROUGH, C	507,680	9,724	14	3,545	6,165	14	5,427			
TORONTO, C	635,395	21,441	39	6,827	14,575	39	9,645			
YORK, C	138,080	799	1	294	504	1	433			
PROVINCIAL HIGHWAY	-	8,533	9	2,316	6,208	10	3,600			
TORONTO, METRO	M 2,247,611	58,235	79	19,039	3,917	80	28,414	1,087,907		
BOBCAYGEON, VL	2,472	14	-	3	11	-	3			
EMILY, TP	6,254	7	-	-	7	-	-			
FENELON FALLS, VL	1,806	21	-	4	17	-	4			
FENELON, TP	5,567	2	-	-	2	-	-			
LINDSAY, T	M 17,000	284	-	81	203	-	135			
MANVERS, TP	5,157	3	-	-	3	-	-			
MARIPOSA, TP	6,839	7	-	1	6	-	2			
SOMERVILLE, TP	2,092	1	-	-	1	-	-			
VERULAM, TP	5,075	3	-	-	3	-	-			
PROVINCIAL HIGHWAY	-	463	7	120	336	8	196			
OTHER AREAS	5,329	524	5	127	392	5	205			
VICTORIA	64,502	1,329	12	336	981	13	545	50,434		
CAMBRIDGE, C	99,000	1,903	4	386	1,513	5	605			
KITCHENER, C	183,200	3,569	2	778	2,789	2	1,128			
NORTH DUMFRIES, TP	7,090	138	1	39	98	1	53			
WATERLOO, C	89,663	1,577	3	330	1,244	3	482			
WELLESLEY, TP	8,370	28	1	4	23	2	8			
WILMOT, TP	13,135	135	2	34	99	2	47			
WOOLWICH, TP	16,711	240	-	57	183	-	102			
PROVINCIAL HIGHWAY	-	1,079	6	252	821	7	403			
OTHER AREAS	-	342	1	55	286	1	75			
WATERLOO	M 417,169	9,011	20	1,935	7,056	23	2,903	248,746		
ARTHUR, TP	2,472	4	-	-	4	-	-			
ARTHUR, VL	1,960	24	-	2	22	-	5			
ELORA, VL	3,116	22	-	6	16	-	9			
ERAMOSA, TP	5,764	1	-	-	1	-	-			
ERIN, TP	7,468	2	-	-	2	-	-			
ERIN, VL	2,414	13	-	4	9	-	6			
FERGUS, T	M 8,008	94	-	23	71	-	39			
GUELPH, C	M 93,400	1,268	1	463	804	1	695			
HARRISTON, T	M 1,900	12	-	2	10	-	2			
MARYBOROUGH, TP	2,573	3	-	1	2	-	2			
MINTO, TP	2,357	5	-	1	4	-	2			
MOUNT FOREST, T	4,164	69	-	7	62	-	11			
NICHOL, TP	3,999	3	-	1	2	-	3			
PALMERSTON, T	M 2,400	8	-	2	6	-	2			
PEEL, TP	4,294	10	-	1	9	-	2			

Table 4.1

Continued

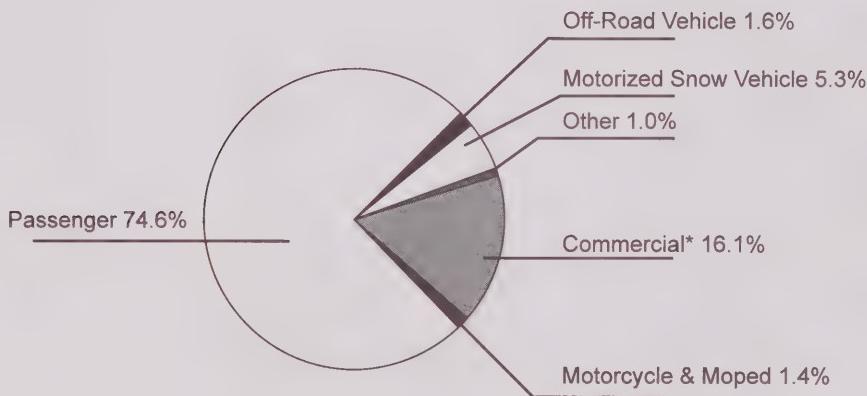
Location	Estimated Population (1994)*	Class of Collision				Persons		Motor Vehicle Registrations
		Total Collisions	Fatal	Personal Injury	Property Damage	Killed	Injured	
PILKINGTON, TP	2,400	2	-	1	1	-	1	
PUSLINCH, TP	4,607	5	-	-	5	-	-	
WEST GARAFRAXA, TP	3,341	1	-	-	1	-	-	
PROVINCIAL HIGHWAY	-	1,039	13	246	780	16	448	
OTHER AREAS	3,169	833	5	207	621	5	324	
<b>WELLINGTON</b>	<b>162,851</b>	<b>3,418</b>	<b>19</b>	<b>967</b>	<b>2,432</b>	<b>22</b>	<b>1,551</b>	<b>111,621</b>
ANCASTER, T	22,810	218	-	86	132	-	135	
DUNDAS, T	22,154	166	1	56	109	1	84	
FLAMBOROUGH, T	33,381	203	2	62	139	3	95	
GLANBROOK, TP	10,238	62	-	24	38	-	39	
HAMILTON, C	318,500	4,617	6	1,721	2,890	6	2,482	
STONEY CREEK, C	51,865	365	1	129	235	1	200	
PROVINCIAL HIGHWAY	-	1,375	13	375	987	17	679	
OTHER AREAS	-	133	-	38	95	-	55	
<b>HAMILTON-WENTWORTH</b>	<b>458,948</b>	<b>7,139</b>	<b>23</b>	<b>2,491</b>	<b>4,625</b>	<b>28</b>	<b>3,769</b>	<b>264,369</b>
AURORA, T	33,595	362	2	65	295	2	102	
E GWILLIMBURY, T	18,023	229	1	34	194	3	61	
GEORGINA, T	30,802	280	1	78	201	1	117	
KING, TP	17,504	227	-	46	181	-	75	
MARKHAM, T	164,376	1,990	7	382	1,601	11	609	
NEWMARKET, T	49,645	594	-	123	471	-	181	
RICHMOND HILL, T	100,000	966	3	179	784	3	279	
VAUGHAN, C	131,720	1,735	2	350	1,383	2	581	
WHITCHURCH-STOUFFVILLE , T	18,500	198	1	49	148	1	92	
PROVINCIAL HIGHWAY	-	3,277	12	731	2,534	13	1,235	
OTHER AREAS	-	492	-	109	383	1	195	
<b>YORK</b>	<b>564,165</b>	<b>10,350</b>	<b>29</b>	<b>2,146</b>	<b>8,175</b>	<b>37</b>	<b>3,527</b>	<b>380,570</b>

**Legend**

T	town	Other Areas -	Jurisdictions	M Municipal Police Force
C	city		with less than	
VL	village		1,500 population	
TP	township			

\* Source: Ontario Ministry of Municipal Affairs Municipal Directory 1994.

Population data in this table refers to persons residing in a municipality on a permanent basis.

**5****The Vehicle****Vehicle Population by Vehicle Class in Ontario - 1996**

Other includes bus, school bus, road building machinery, permanent apparatus and farm trucks.

\* Commercial excludes Single Application Vehicle Registration (SAVR).

## 5a. Vehicles in Collisions

Table 5.1

Type of Vehicle Involved in All Collisions 1996

Type of Vehicle	Class of Collision			Total
	Fatal	Personal Injury	Property Damage	
Passenger Car	834	79,942	204,631	285,407
Passenger Car & Trailer	4	128	454	586
Truck	356	21,164	64,967	86,487
Truck & Trailer	21	503	1,811	2,335
Tractor & Semi-trailer	79	1,392	4,909	6,380
Motorcycle	34	1,138	395	1,567
Bus	13	669	1,567	2,249
School Bus/Vehicle	5	202	877	1,084
Other - Or Not Known	8	1,017	6,819	7,844
Non Motor Vehicle	43	3,360	1,378	4,781
<b>Total</b>	<b>1,397</b>	<b>109,515</b>	<b>287,808</b>	<b>398,720</b>

In 1988, major revisions were made in the recording of motor vehicle collision data. The above table now reflects a consolidation of various types of vehicles and/or trailers. Therefore, valid conclusions cannot be made when comparing these data to that of the years previous to 1988.

More detailed information for some vehicles is provided in the Vehicles of Special Interest Section.

Table 5.2

Condition of Vehicle by  
Class of Collision 1996

Condition of Vehicle	Class of Collision			Total
	Personal		Property	
	Fatal	Injury	Damage	
No Apparent Defect	1,293	103,728	267,621	372,642
Service Brakes Defective	9	120	273	402
Steering Defective	-	16	49	65
Tire Puncture or Blow Out	1	76	176	253
Tire Tread Insufficient	4	48	55	107
Headlamps Defective	1	9	15	25
Other Lamps or Reflectors Defective	-	16	67	83
Engine Controls Defective	-	12	34	46
Wheels or Suspension Defective	-	7	65	72
Vision Obscured	-	4	31	35
Trailer Hitch Defective	-	3	17	20
Other Defects	25	749	1,927	2,701
Unknown	64	4,727	17,478	22,269
<b>Total</b>	<b>1,397</b>	<b>109,515</b>	<b>287,808</b>	<b>398,720</b>

Table 5.3

Model Year of Vehicle by Class of  
Collision 1996

Model Year of Vehicle	Class of Collision			Total
	Personal		Property	
Fatal	Injury	Damage		
1997	9	404	1,493	1,906
1996	83	4,912	13,422	18,417
1995	124	7,987	22,609	30,720
1994	112	7,181	20,162	27,455
1993	81	7,300	20,443	27,824
1992	86	7,499	20,915	28,500
1991	110	7,694	20,422	28,226
1990	84	8,370	22,549	31,003
1989	125	9,443	24,591	34,159
1988	110	9,663	25,170	34,943
1987 and earlier	428	32,990	81,950	115,368
Unknown	45	6,072	14,082	20,199
<b>Total</b>	<b>1,397</b>	<b>109,515</b>	<b>287,808</b>	<b>398,720</b>

**Table 5.4** Insurance Status of Vehicle by Class of Collision 1996

Insurance	Class of Collision			<b>Total</b>
	Fatal	Personal	Property	
Insured	1,273	100,412	267,970	<b>369,655</b>
Not Insured	63	3,081	3,862	<b>7,006</b>
Unknown	61	6,022	15,976	<b>22,059</b>
<b>Total</b>	<b>1,397</b>	<b>109,515</b>	<b>287,808</b>	<b>398,720</b>

## 5b. Putting the Vehicle in Context

**Table 5.5** Vehicle Population by Type of Vehicle 1996

Vehicle Class	
Passenger	5,120,509
Motorcycle	94,431
Moped	3,218
Commercial*	1,106,829
Bus	18,879
School Bus	8,639
Motorized Snow Vehicle	361,596
Off-Road Vehicle	111,344
Road Building Machinery	714
Permanent Apparatus	3,333
Farm Trucks	34,561
<b>Total</b>	<b>6,824,445</b>

\* Excludes Single Application Vehicle Registrations (SAVR - 26,068 vehicles).

**Table 5.6** Selected Types of Vehicles by Model Year 1996

Vehicle Class	Model Years												Total
	97	96	95	94	93	92	91	90	89	88	87+		
Passenger	102,488	295,422	366,872	341,855	359,169	388,347	373,727	393,692	423,291	429,011	1,646,635		5,120,509
Motorcycle	330	2,773	2,803	2,788	2,970	2,440	2,207	2,397	2,547	2,803	70,373		94,431
Moped	3	6	4	14	12	4	20	15	22	10	3,108		3,218
Commercial*	20,833	56,110	73,833	68,275	55,527	56,876	57,688	77,925	95,757	107,112	435,893		1,105,829
Bus	218	1,760	2,021	1,407	1,627	2,072	2,202	2,600	2,677	2,518	8,416		27,518
Motorized Snow Vehicle	11,796	15,350	14,680	14,813	12,625	10,013	13,980	15,231	14,795	12,748	225,565		361,596
Off-Road Vehicle	705	4,262	5,082	4,240	5,146	4,884	4,925	5,729	4,686	4,107	67,578		111,344
<b>Total**</b>	<b>136,373</b>	<b>375,683</b>	<b>465,295</b>	<b>433,392</b>	<b>437,076</b>	<b>464,636</b>	<b>454,733</b>	<b>497,589</b>	<b>543,775</b>	<b>558,309</b>	<b>2,457,568</b>		<b>6,824,445</b>

\* Excludes Single Application Vehicle Registrations (SAVR - 26,068 vehicles).

**Table 5.7      Vehicle Damage Level 1996**

Damage	Class of Collision			Total
	Fatal	Personal	Property	
None	78	10,814	19,694	<b>30,586</b>
Light	149	30,557	123,025	<b>153,731</b>
Moderate	150	29,516	95,556	<b>125,222</b>
Severe	222	23,028	27,940	<b>51,190</b>
Demolished	780	11,220	5,274	<b>17,274</b>
Unknown	18	4,380	16,319	<b>20,717</b>
<b>Total</b>	<b>1,397</b>	<b>109,515</b>	<b>287,808</b>	<b>398,720</b>

#### Vehicle Damage

- None**      No visible damage.
- Light**      Slight or superficial damage. Includes scratches, small dents, and minor cracks in glass, that do not affect safety or performance of vehicle.
- Moderate**      Unsafe conditions result from damage. Vehicle must be repaired to make its condition meet the requirements of the law. Vehicle can be driven off road or a limited distance, but doing so would be unsafe.
- Severe**      Vehicle cannot be driven. Requires towing. Would normally be repaired.
- Demolished**      Vehicle damaged to the extent that repairs would not be acceptable.

**6****Vehicles of Special Interest**

**6a. Motorcycles**

**Table 6.1**      **Motorcyclists\***  
**Killed and Injured**  
**1992-1996**

Year	Drivers		Passengers	
	Killed	Injured	Killed	Injured
1992	55	1,814	6	404
1993	54	1,706	5	398
1994	50	1,526	4	324
1995	37	1,309	4	289
1996	27	1,006	2	244

\* Excludes moped drivers and passengers.

**Table 6.2**      **Selected Factors  
Relevant to Fatal Motorcycle  
Collisions 1996**

Factors	%
Unlicensed Motorcycle Drivers	9
Under 25 years Old	32
Alcohol Used	
Ability Impaired Alcohol > .08	18
Had Been Drinking	15
Unknown	9
Helmet Not Worn (Fatalities)	18
Motorcycle Driver Error	
Speed Too Fast/Lost Control	44
Other Error	26
Single Vehicle Collisions	48
Day/Night	58/42
Weekend	48

**6b. School Vehicles**

**Table 6.3** Pupils Transported Daily, Total Collisions and Injury Rate per 100,000 Pupils -  
School Years 1991/92-1995/96

	School Year	Pupils Transported	Total	Injury Rate per 100,000 Pupils	
			Number of Collisions	Fatals	Non-Fatal
			Daily		
	1991/92	794,941	1,194	0.2	18
	1992/93	796,347	1,174	-	20
	1993/94	798,926	1,293	0.4	27
	1994/95	816,273	1,018	0.1	21
	1995/96*	N/A	1,091	N/A	N/A

\* In 1995 the Ministry of Education and Training (MET) implemented a change to the funding formula for the transportation of pupils consequently these data will no longer be available.

**Table 6.4** School Vehicle Type by Nature of  
Collision 1995/96

School Vehicle	Nature of Collision					Total	Five Year Total (1991/92 1995/96)
	Type	Pupil	Non-Pupil	Property	Number of Collisions		
		Fatal	Injury	Injury	Damage		
School Bus		3	71	94	806	974	4,993
School Van		-	10	9	75	94	643
Other School Vehicles		-	4	3	16	23	134
<b>Total</b>		<b>3</b>	<b>85</b>	<b>106</b>	<b>897</b>	<b>1,091</b>	<b>5,770</b>

**Table 6.5** Pupil Injury by Collision Event and Vehicle Type 1995/96

School Vehicle	Collision Event						Total		Five Year Total	
	Crossing		Within		Other				(1991/92	
	Road		School Vehicle						1995/96)	
Type	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
School Bus	-	1	-	94	-	9	-	104	5	749
School Van	-	-	-	12	-	1	-	13	-	62
Other School Vehicles	-	-	-	4	-	-	-	4	-	10
<b>Total</b>	-	<b>1</b>	-	<b>110</b>	-	<b>10</b>	-	<b>121</b>	<b>5</b>	<b>821</b>

**6c. Trucks**

**Table 6.6 Class of Truck Collision  
1992-1996**

Year	Class of Collision			Total
	Fatal	Injury	Property	
1992	361	13,563	43,330	57,254
1993	419	13,312	42,915	56,646
1994	326	13,335	43,906	57,567
1995	365	12,647	40,487	53,499
1996	320	12,377	39,595	52,292
Total	1,791	65,234	210,233	277,258

**Table 6.7 Driver Licence Class Required  
by Class of Truck Collision 1996**

Driver Licence Required	Class of Collision			Total
	Fatal	Injury	Property	
G	194	10,238	32,115	42,547
D	35	617	2,220	2,872
A*	91	1,522	5,260	6,873
Total	320	12,377	39,595	52,292

\* Includes truck/trailer combinations requiring a Class "A" licence.

**Table 6.8 Driver Licence Class Required -  
Collisions, Registered Trucks and  
Collision Rate 1996**

Driver Licence Required	Collisions	Registered	Collision
		Vehicles	Rate
G	42,547	967,309	4.4
D	2,872	49,812	5.8
A*	6,873	114,776 **	6.0
Total	52,292	1,131,897	4.6

\* Tractor/trailer combination only.

\*\* Includes vehicles registered under SAVR - 26,068.

Data for truck/trailer combinations requiring Class "A" driver licence are not reported separately in the Vehicle Registration System.

**Table 6.9 Selected Factors Relevant to Fatal  
Truck Collisions 1996**

Factors	Driver Licence Required		
	Class G	Class D	Class A
Driver Condition in			
Fatal Collisions:			
Alcohol Involved	24.2%	5.7%	0.0%
Driving Properly	44.8%	60.0%	74.7%
Single Vehicle	39.7%	28.6%	20.9%
Vehicle Defect Present*	2.1%	11.4%	2.2%
Urban Area	30.4%	48.6%	24.2%
Daylight	57.7%	71.4%	63.7%

\* Excludes unknown category.

Class G trucks refers to trucks that have a gross weight less than 11,000 kilograms i.e. pickups.

## 6d. Off-Road Vehicles

**Table 6.10** Collision Location  
by Off-Road Vehicle Drivers  
Killed and Injured 1992-1996

Location	Killed					Injured				
	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996
On-Highway	-	3	3	-	-	36	22	22	23	20
Off-Highway	2	2	3	6	5	67	68	63	74	46
Total	2	5	6	6	5	103	90	85	97	66

**Table 6.11** Collision Location  
by Off-Road Vehicle Passengers  
Killed and Injured 1992-1996

Location	Killed					Injured				
	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996
On-Highway	-	1	-	-	-	9	4	6	5	6
Off-Highway	2	-	-	-	-	17	17	23	23	9
Total	2	1	-	-	-	26	21	29	28	15

**Table 6.12** Registered Off-Road  
Vehicle 1992-1996

Year	Vehicles Registered
1992	92,020
1993	97,104
1994	101,954
1995	106,677
1996	111,344

**Table 6.13** Selected Factors Relevant to  
All Off-Road Vehicle  
Collisions 1996

Factors	%
Drivers Under 25 Years of Age	56
Alcohol Used	19
Speeding	23
Helmet Not Worn	46
Daytime	71
Two-Wheeled	19
Three-Wheeled	18
Four-Wheeled	64

For the purposes of this publication, off-road vehicles include dune buggies, off-road motorcycles (dirt bikes), and three and four wheeled all-terrain vehicles. Off-road vehicles were first required to be registered on June 1, 1984 (one time registration requirement).

**6e. Motorized Snow Vehicles**

**Table 6.14 Collision Location by Motorized Snow Vehicle\* Drivers Killed and Injured - Riding Seasons 1991/92-1995/96**

Location	Killed					Injured				
	91/92	92/93	93/94	94/95	95/96	91/92	92/93	93/94	94/95	95/96
On-Highway	1	3	2	6	3	61	37	62	36	73
Off-Highway	11	22	9	22	25	195	121	237	243	304
Total	12	25	11	28	28	256	158	299	279	377
% On-Highway	8	12	18	21	11	24	23	21	13	19

**Table 6.15 Collision Location by Motorized Snow Vehicle\* Passengers Killed and Injured - Riding Seasons 1991/92-1995/96**

Location	Killed					Injured				
	91/92	92/93	93/94	94/95	95/96	91/92	92/93	93/94	94/95	95/96
On-Highway	1	-	1	-	-	29	16	25	17	33
Off-Highway	4	2	3	2	2	97	82	63	62	103
Total	5	2	4	2	2	126	98	88	79	136

**Table 6.16 Registered Motorized Snow Vehicles 1992-1996**

Year	Registered Motorized
1992	366,730
1993	383,083
1994	391,847
1995	339,803
1996	361,596

**Table 6.17 All Motorized Snow Vehicle\* Collisions 1995/96**

Factors	%
Unlicensed Operators	10
Rider Error; Speed too Fast	35
Alcohol Used	23
Surface Condition; Icy or Packed Snow	56

\* The numbers in these tables are captured under the Motorized Snow Vehicle Act (MSVA) and the Highway Traffic Act (HTA) therefore they are not comparable with the numbers in Tables 2.2 and 2.3 which are HTA reportable collisions only.

**6f. Bicycles****Table 6.18 Bicyclists\***

Bicyclists*				
Killed and Injured				
1992-1996				

Year	Drivers		Passengers	
	Killed	Injured	Killed	Injured
1992	27	3,333	-	168
1993	31	3,290	-	123
1994	27	3,283	-	107
1995	19	2,983	-	105
1996	20	2,863	-	109

**Table 6.20 Selected Factors**

Selected Factors	
Relevant to	

All Bicycle Collisions 1996	
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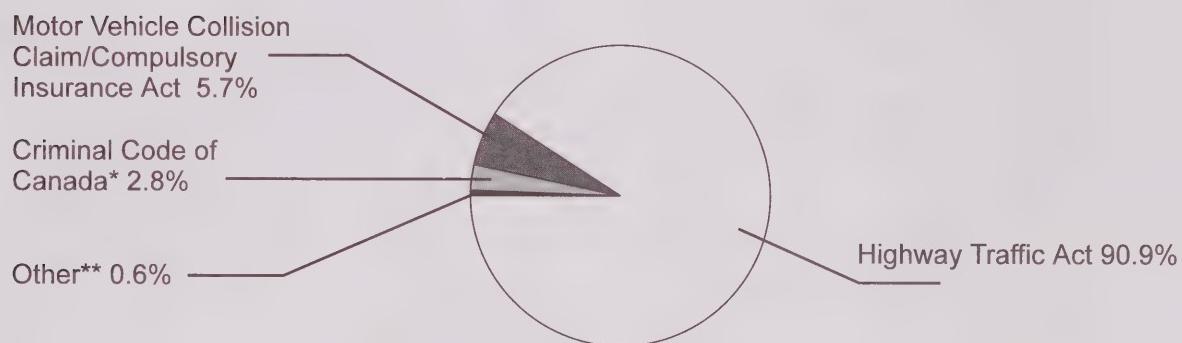
Factors	%
Driving Properly (Bicyclist)	40
Driving Properly (Motor Vehicle Driver)	48
Intersection Related	65
Going Ahead (Bicyclist)	82
Alcohol Related (Bicyclist)	3
No Apparent Vehicle Defect (Bicycle)	90
Clear Visibility	90
Weekend	19

**Table 6.19 Age of Bicyclist\* Involved in Collisions by Light Condition 1996**

Light Condition	Age Groups						Total
	0 - 5	6 - 15	16 - 30	31 - 60	61+	UK	
Daylight	254	797	953	647	90	69	2,810
Dawn	2	1	6	4	-	-	13
Dusk	11	56	47	34	1	1	150
Dark	37	85	212	122	4	10	470
Total	304	939	1,218	807	95	80	3,443

\* Only collisions involving a bicycle and a moving motor vehicle or a streetcar are required to be reported. These tables do not include bicycle only bicycle/bicycle or bicycle/pedestrian collisions.



**7****Conviction and Suspension Data****Per Cent of Motor Vehicle Convictions in Ontario - 1996**

\* This figure does not include convictions for young offenders under the Criminal Code.

\*\* Includes Municipal By-Law, Motorized Snow Vehicles Act, Off-Road Vehicles Act convictions and H.T.A. Regulation convictions.

## 7a. Conviction Data

**Table 7.1** Summary of Motor Vehicle  
Related Convictions 1996

Convictions**	Number
Highway Traffic Act	779,217
Regulation H.T.A.	1,353
Criminal Code of Canada*	23,675
Municipal By-Law	1,243
Motor Vehicle Collision Claim/Compulsory Insurance Act**	49,204
Motorized Snow Vehicles Act	1,990
Off-Road Vehicle	698
<b>Total</b>	<b>857,380</b>

\* This figure does not include 359 convictions for young offenders under the Criminal Code.

\*\* Now includes some out of province convictions.

**Table 7.2** Motor Vehicle Convictions  
Related to the  
Highway Traffic Act 1996

Convictions	Number
Equipment	14,316
Administrative*	89,755
Seat Belt (Driver & Passenger)	46,599
Other Non-Pointable Convictions **	9,774
Speeding (< 16km/h, non-pointable)	241,831
Pointable Speeding	207,677
Other Pointable Convictions (2 - 4 pt)	118,264
Other Pointable Convictions (5 - 7 pt)	8,072
Driving While Suspended	11,560
<b>Total</b>	<b>747,848</b>

\* Non-moving, weight, vehicle registration, licence renewal, etc.

\*\* Now includes some out of province convictions.

**Table 7.3** Motor Vehicle Convictions  
Related to the  
Criminal Code 1996\*

Convictions	Number
Alcohol Related**	19,956
Criminal Negligence	46
Fail to Remain at Collision	566
Driving While Disqualified	2,128
Dangerous Driving	979
Motor Manslaughter	-
<b>Total</b>	<b>23,675</b>

\* Does not include 359 convictions for young offenders.

\*\* Includes some out of province convictions.

**7b. Suspension Data****Table 7.4**

Mandatory Suspensions Related to Criminal Code Convictions Issued 1996						
Suspensions	3 Months	6 Months	1 Year	2 Years	3 Years	Total
Criminal Negligence (sect. 220, 221)	-	-	15	22	9	46
Fail to Remain	-	-	231	190	139	560
Dangerous Driving	-	-	352	341	278	971
Impaired Driving	-	-	3,121	4,258	3,519	10,898
Blood/Alcohol over .08	-	-	2,125	2,996	2,571	7,692
Failure to Provide Breath Sample	-	-	448	471	389	1,308
Failure to Provide Roadside Breath Sample	-	-	-	-	-	-
Drive while Disqualified or Prohibited	-	-	803	788	541	2,132
<b>Total</b>	-	-	<b>7,095</b>	<b>9,066</b>	<b>7,446</b>	<b>23,607</b>

Federal and provincial laws relating to drinking and driving were amended December 20, 1985. The current minimum suspension periods are 1 year for a first conviction, 2 years for a second conviction within five years and 3 years for a third conviction within five years.

**Table 7.5**

Mandatory Suspensions Related to Criminal Code Convictions at Year End 1996**						
Suspensions	3 Months	6 Months	1 Year	2 Years	3 Years	Total
Criminal Negligence	-	1	29	34	26	90
Fail to Remain	-	-	319	351	307	977
Dangerous Driving	-	-	577	684	571	1,832
Impaired Driving	-	-	4,415	6,537	5,786	16,738
Blood/Alcohol over .08	-	-	2,625	4,085	3,470	10,180
Failure to Provide Breath Sample	-	-	571	763	685	2,019
Failure to Provide Roadside Breath Sample	-	-	-	-	-	-
Drive while Disqualified or Prohibited	-	-	2,316	2,691	641	5,648
<b>Total</b>	-	1	<b>10,852</b>	<b>15,145</b>	<b>11,486</b>	<b>37,484</b>

\*\* This table reflects the suspensions in effect at year end. The total exceeds the number of suspensions issued in 1996 due to the fact some suspensions are in effect for more than one year.

Table 7.6 Demerit Point Suspensions by Driver Age 1996

Driver Age	Demerit Point Suspensions				
	Novice		Novice		Regular
	First	Second	First	Second	
	Probationary	Accumulation	Accumulation	Accumulation	Accumulation
16	1	2	1	-	-
17	13	94	7	-	-
18	381	160	5	3	-
19	325	83	13	16	-
20-24	731	228	11	352	17
25-34	498	187	5	405	24
35-44	115	52	2	141	5
45-54	17	17	-	60	3
55-64	3	3	-	17	1
65-74	-	-	-	7	-
75 +	-	-	-	1	-
Total	2,084	826	44	1,002	50

Since 1994 novice drivers have been under the new graduated licensing system. These drivers are subject to escalating actions from a warning letter at 2 to 5 points, an interview at 6 to 8 points and a 60 day suspension for a first accumulation of 9 points. After a first suspension, the points are reduced to 4 and if they attain 9 points again the subsequent suspension is 6 months.

Regular drivers are suspended for 30 days on the first accumulation of 15 demerit points and are suspended for 6 months on the second accumulation of 15 points within 2 years.

Until 1994 newly licensed drivers were covered by the probationary licence system until they had successfully completed two one-year periods of suspension-free driving. Probationary drivers were suspended for 30 days after accumulating 6 or more demerit points. The probationary licensing system ended on March 31, 1994. Drivers were grandfathered into the system by the new graduated licensing system.

**8****Appendix****8a.****Glossary****Ability Impaired Alcohol:**

Driving while one's ability is impaired by alcohol or driving with a blood alcohol concentration exceeding 80 milligrams in 100 milliliters of blood.

**Alcohol Involved:**

This category includes both drivers reported as ability impaired by alcohol and drivers reported as "had been drinking".

**Class G1 Driver's Licence:**

A holder of a Class G1 driver's licence:

- must have a zero blood alcohol content while driving.
- must have only one passenger in the front seat. That person, the accompanying driver, must be a fully licensed driver (Class A, B, C, D, E, F and G) with at least four years driving experience. That person's blood alcohol content must be less than .05.
- unless accompanied by a licensed driving instructor, must not drive on Ontario's "400-series" highways or on high speed expressways such as the Queen Elizabeth Way, the Don Valley Parkway, E.C. Row Expressway and the Conestoga Parkway.
- must limit the number of back seat passengers they carry to the number of seat belts in the back seats of the vehicle.
- must not drive between the hours of midnight and 5 a.m.
- may drive Class G vehicle only.

Level One lasts 12 months, but that time can be reduced to eight months by completing an approved driver education course. For information about approved courses contact any Ministry of Transportation licensing office. At the end of this level, drivers must pass a road test before proceeding to Level Two.

**Class G2 Driver's Licence:**

A holder of a Class G2 driver's licence:

- must have a zero blood alcohol content while driving.
- is allowed to drive any motor vehicle that requires a Class G driver's licence (e.g. an automobile) on the road.
- must limit the number of back seat passengers they carry to the number of seat belts in the back seats of the vehicle.

Level Two lasts 12 months. After completing this level, drivers will be eligible to take a comprehensive test to qualify for full licence privileges.

**Class M1 Motorcycle Driver's Licence:**

A holder of a Class M1 motorcycle driver's licence:

- allows the holder to operate a motorcycle for the purposes of training.
- must have a zero blood alcohol content while driving.
- is only allowed to drive during daylight hours (one-half hour before sunrise to one-half hour after sunset).
- is only allowed to drive on roads with speed limits of 80 km/h or less, except where there is no other route you can drive. You may drive on highways 11, 17, 61, 69, 71, 101, 102, 144, and 655.
- may not carry passengers.

Level One lasts at least 60 days, and the licence is valid for 90 days. Level One drivers must pass a motorcycle road test before proceeding to Level Two. Alternatively, during Level One they may take an approved motorcycle safety course that includes a road test, instead of the ministry road test.

**Class M2 Motorcycle Driver's Licence:**

A holder of a Class M2 motorcycle driver's licence:

- must have a zero blood alcohol content while driving.

After completing Level Two, drivers will be eligible to take a comprehensive test to qualify for full licence privileges.

**Conviction:**

Awarded when a person pleads guilty to, or is found guilty of, an offence related to a motor vehicle under any Act of the Ontario Legislature or its accompanying regulations, under the Parliament of Canada or any accompanying order, or under any municipal bylaw.

**Driver:**

Unless specified otherwise, any person, whether licensed or not, considered to be in care and control of a vehicle at the time of an collision.

**Had Been Drinking:**

Driving after having drunk an amount of alcohol not considered sufficient to be legally impaired or with a measured blood alcohol count of greater than zero but less than 80 milligrams. Blood alcohol concentration between .05 and .08 results in a 12 hour suspension.

**Highway:**

A common and public highway, street, avenue etc., any part of which is intended for public use or used by the general public for the passage of vehicles and including the area between the property lines.

**Kilometres Travelled:**

Vehicle fleet mileage is estimated on the basis of taxed gasoline and motor fuel sales. Total litres sold are converted to kilometres traveled based on a conversion factor of 22.0 kilometres per gallon.

**Major Injury:**

A non-fatal injury severe enough to require that the injured person be admitted to hospital, even if for observation only.

**Minimal Injury:**

A non-fatal injury, including minor abrasions and bruises, which does not necessitate the injured person going to a hospital.

**Minor Injury:**

A non-fatal injury requiring medical treatment at a hospital emergency room, but not requiring hospitalization of the involved person.

**Motor Vehicle Collision:**

Any incident in which bodily injury or damage to property is sustained as a result of the movement of a motor vehicle, or of its load while a motor vehicle is in motion.

**Off-Highway Collisions:**

An off-highway collision involving any of the motorized vehicles which are covered by legislation under the Highway Traffic Act, the Motorized Snow Vehicles Act, and the Off-Road Vehicles Act.

**On-Highway Collisions:**

A motor vehicle collision which occurs on the highway between the property lines.

**Pedestrian:**

Any person not riding in or on a vehicle involved in a motor vehicle collision.

**Fatal Collision:**

A motor vehicle collision in which at least one person sustains bodily injuries resulting in death. Prior to January 1, 1982, fatal collision statistics included deaths attributed to accidental injuries up to one year after the collision. Since that date, only deaths from injuries within thirty days of the collision have been included.

**Personal Injury Collision:**

A motor vehicle collision in which at least one person involved sustains bodily injuries not resulting in death.

**Property Damage Collision:**

A motor vehicle collision in which no person sustains bodily injury, but in which there is damage to any public property or damage to private property\* including damage to the motor vehicle or its load.

**Reportable Collision:**

Any injury collision, or property damage to private property in excess of a monetary value prescribed by regulation.\*

**Suspension:**

Withdrawal of a drivers' privilege to operate motor vehicle for a prescribed period of time.

\* The minimum reportable level for property damage only collision rose from \$200 to \$400 on January 1, 1978 and rose again to \$700 on January 1, 1985.

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